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# A N <br> E S S A Y <br> o. N 

D I S E A S E S INCIDENTALTO

Literary and Sedentary Perfons.
WITH

Proper Rules for preventing their fatal Confequences.

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A N D
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Instructions for their Cure.

By S. A. TISSOT, M. D. Profeffor of Physick at Berne.

Now firft tranflated into ENGLISH.
L O N D O N:

Printed for Edw . and Charles Dilly, in the Poultry; MDCCLXVIII.

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TO

The Consuls, Questors, TriBUNES, and other illuftrious and great Men of the fenatorial Order at Berne.

Am indebted to you for maI ny great obligations, moft illuftrious and great men; and lately you have done me the honour to confer a moft noble and unexpected favour upon me.

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iv DEDICATION.
It is but juft that I fhould by words thank thofe to whom I am incapable of making any other return; and fuch a teftimony of gratitude I will fhew them as long as I live. It is proper that, being publickly graced by your favours, I fhould make a public acknowledgment, and give fome pledge of my gratitude, however mean and inadequate. Receive therefore, moft illuftrious and excellent men, and deign to receive favourably, this firf though feeble proof of my diligence in my new office. May the Almighty enable

## DEDICATION.

enable me to promote the public intereft of the academy by more confiderable and more valuable productions, and may the hopes which you have conceived of me, venerable fathers of your country, and the hopes which the people have conceived concerning this new profefforfhip, be fulfilled to general fatisfaction. May the propitious Deity likewife favour all your public and private undertakings, and fhower all his choiceft bleffings both up- on you and yours, and the whole commonwealth. And ceafe not ${ }_{2}$ reverend fathers, to make happy,

## vi DEDICATION.

by your conftant benevolence - and favour, a man entirely devoted to the fervice of your excellencies.
S. A. Tissot.

Laufanne,<br>April 29, 1766.

## Advertifement to the Reader.

THE occafion of this difcourfe, and the choice of the materials, will fufficiently appear from the difcourfe itfelf: therefore, courteous reader, I Ball not trefpafs upon thy patience by a long preface.

I bave long fince read many treatifes and differtations concerning the bealth of the fudious; but of all the autbors, who bave treated this fubject, the only one robo bas acquitted bimjelf to my fatisfaction is Bernard Ramazini: for 1 bave not yet bad an opportunity of reading the work of the celebrated PuJatus, a man who in other refpects bas deferved bighly of the medicinal fcience; but wobofe treatije upon tbis fubject is, I find, neither praifed by the journals nor by bis friends. Nor is the work of RAmAzini
viii ADVERTISEMENT.
compleat; fince be bas left more topicks untouched than be bas elucidated. I bave therefore undertaken an important, an agrecable, and even a nere fubject; and I bope I 乃all not appear unequal to it: but it will be fufficient to bave pointed out the road at a difance tolearned travellers; they swill foon be able of themfelves to Joere the unknowen patbs; wbich is my earneft wihb and defire. In tbis treatife there will occur many palfages tranfcribed verbatim from Celsus, Gaubius, and other eminent men, and that even witbout difinguifbing them by quotation. This plagiarifm will, I bope, be excufed, becaufe I looked-upon it as a fort of profanation to alter their words, as they were extreamly eloquent, and admirably adapted to my purpofe: befides, it was improper to difguft the reader by too great a number of quotations.


> ONTHE

## D I S E A S E S

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## Literary and Sedentary Perfons.



 this chair, with how general an applaufe they apply'd to the education of youth, and how every branch of erudition has been cultivated to fuch advantage by the prefent fet of teachers, into whofe learned order I am this day
admitted by the great favour and indulgence of our fenate; whilft I at the fame time reflect how much this new fituation differs from my former manner of living, in which as I had willingly pafs'd a confiderable part of my life, I had determin'd to continue to my old age ; when I reflect upon all thefe circumftances, a tremor feizes my limbs, and my voice falters. But becaufe from the very foundation of this refpectable academy; cuftom, which governs all things, and your expectation requires it of me, embolden'd by your kindnefs, I will make trial of my abilities.

Being a new member, and afcending a new chair, I propos'd to fpeak of the connexion between phyfic and other academical fudies, and it was

Literary and Sedentary Perfons: 3 my defign to explain what it borrows from them, and what it contributes to them in its turn.

It would be a pleafure to me, reverend paftors of the church, and illuftrious profeffors of divinity, to declare aloud how much phyfick is indebted to religion; I would gladly vindicate the principles of phyficians from the imputations of ancient calumny, and prove that religion is ftrongly fupported by a fcience, which, being totally converfant in the contemplation of an admirable creature, demonftrates from the wonderful mechanifm of a man in health, and the furprifing cures of the fick, the exitence and great wifdom of the Supreme Artificer, and that even to the moft obftinate. Do men forget the Deity?

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4 On the Dijeafes of
Phyficians ftand forth, and theology is entirely reviv'd ; for who have fpoken more truth, or in a fublimer ftile concerning God, than they? There would be no end, were I to cite them all ; but I muft not pafs over in filence Hippocrates, the firft who ever afferted that fate produc'd nothing, but that all thofe events, which we call fortuitous, are regulated by the will of God: the next to him is Galen, who diffufively proves, that the exiftence of God is demonftrated by the pofition of the thumb alone; and calls his treatife concerning the ufe of the parts, a monument to the glory of the Deity: to him muft be added Polychrestus, to whom the illuftrious fir-name of Lover of God was given, on account of his great piety: Boyle, who wrote excellent works himfelf, and

Literary and Sedentary Perfons. 5 and founded an admirable inflitution for the promotion of religion, which he nobly endow'd, his friend Sydenham; the immoral Lock; Hoffman, who carried his piety fo far, that he was not entirely free from fuperftition; the admirable Tralles; and my dear and worthy friend Haller, who in an excellent treatife has afferted the utility of religion in a manly ftile, as ufual, and exerts himfelf to the utmoft to promote its caufe.

Phyficians indeed laugh at the idle tales of old women, at the extravagancies of the vulgar, and thereby incur the cenfure of weak and fuperftitious people ; they deride the inventions of imagination; and whilft every divine lays down his own opinion as the rule of truth, phyficians make a jeft of B 3

6 On the Difeafes of
the phantoms which thefe fet up for religion, and refure to embrace a cloud for a Juno: thence all thefe clamours, thefe accufations, thefe reproaches, and thefe calumnies. But if fome of our fociety have in fact been led aftray by error, which I am forry to fay cannot be denied, the fevere cenfure of their colleagues has foon convinced the public how much they difapprov'd of their principles.

It would be a pleafure to me, moft learned profeffor of morality, whom to addrefs by the tender name of father-in-law is my greateft happinefs; it would be a pleafure to me, I fay, to treat to the beft of my abilities of the connexion between the knowledge of morals and of health; how near the relation is between them,

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how exact the concatenation in every refpect. This is certainly both an agreeable and ufeful undertaking: nor is it altogether new; for Hippocrates has in his whole treatife concerning diet, done his utmof to prove that fouls are the fame in all men, and that the various degrees of wifdom and folly proceed from the different temperament of their bodies; and Galen, who has admirably demonftrated the power of the body over the mind and the motions of the will, defired the teachers of philofophy, fixteen ages ago, to fend all perfons of bad morals to him to be cur'd (a).

Should
(a) Now let thofe come to themfelves who with difficulty admit, that the aliments are capable of rendering fome more temperate, B 4 others

## 8 <br> On the Difeajes of

## Should I be ever fo full, moft

 learned profeffor of jurifprudence, I could not entirely difplay the connexion between us; for whether aothers more diffolute, fome incontinent, fome frugal, confident, timorous, mild, modeft, or quarrelfome; let them come to me and hear what it would be proper for them to eat, and what to drink. They will find from hence a great affiftance in moral philofophy ; they will likewife find from hence a great accelfion to their intellectual faculties; they will become more ingenious, have better memories, and be more fludious and wife. For befides the proper fort of food and liquors, I will inffruct them in the nature of air and climates, and point out to them what countries they fhould chufe to refide in, what they fhould avoid. The book which proves that manners are influenc'd by bodily conflitutions, Cap. $9^{\circ}$. Charterius, t. 5. p. 457. Obfervations of the like nature are to be found in Hippocrates, Aristotle, and Plato.

Literary and Sedentary Perfons. 9
legiflator regulates a commonwealth, or whether a judge upon the bench weighs queftions of civil law, or criminal and ecclefiaftical caufes, in the ballance of Themis, there occur cafes, and thofe not a few, in which he cannot do without the affiftance of our art.

It would be neceffary to lay open the greateft part of natural knowledge, moft profound profeffor of philofophy, were I to treat of all that it has in common with phyfick; for you well know that both the cure of difeafes, and the contemplation of the nature of things, had their beginnings from the fame authors. We are therefore inform'd that many of the profeffors of natural philofophy were well fkilled in phyfick, and that the moft il-

## B 5 <br> luftrious

10 On the Dijeafes of

Juftrious of thefe were Pythagoras, Empedocles, and Democritus. Hippocrates was the firft who feparated there ftudies; but he did not feparate them in fuch a manner as to pull them afunder entirely, but fo as to fplit that comprehenfive fcience into feveral more minute members, that many might cultivate divided, what one could not learn entire ; but that neither fhould defert what nature made infeparable.

That part of this fcience, which confiders body merely as body, has retain'd the name of natural philofophy: others went by various names, according to the different forts of bodies of which they treated. The human body is the object of phyfick, which without natural philofophy is lame;

## Literary and Sedentary Perfons. II

lame; for he is but a dunce in the art of healing, who is not acquainted with the forces of bodies, and the laws of motion : nor do profeffors of phyfick care to undertake the education of thofe, who are ignorant of natural philofophy. But if phyfick is greatly indebted to this fcience, it can in fome refpects return the favour, and phyficians have return'd it in many inftances: for Gilbert, who firft fatisfactorily explain'd the phænomena of electricity, was a phyfician, as was likewife Boyle, who promoted natural knowledge more than any other philofopher; and Boerhaave, whofe experiments upon the elements have given a new face to this fcience; and to pafs over many others in filence, the illuftrious Muschembroek, who

## 12

 On the Dijeafes ofis univerfally allow'd to furpafs all others in this article.

And there is fome connexion, though perhaps not fo clofe, between your ftudies and phyfick, illuftrious profeffors of hiftory and languages; for what phyfician would not be afham'd to be ignorant of hiftory and the humanities? Who would not be defirous of confulting the Arabian phyficians in the originals, as none of them has hitherto been faithfully tranflated? Are there not likewife certain parts of hiftory, which phyfick alone can throw proper lights upon? Is not Celsus a phyfician, whofe works all that are defirous of fpeaking latin in perfection, ftudy night and day? Pliny, in whom we meet not merely with help: for acquiring the Latin language, but with

Literary and Sedentary Perfons. 13
the pureft Latinity, though he did not practife phyfic, underftood it perfectly, and is entirely taken up in explaining it. Areteus, whom we refpect as a mafter of the healing art, is confpicuous for the elegance of his Greek. Galen has an eloquence peculiar to himfelf. So has Alexander. And thofe who cultivate the Arabic language, boaft that it is no where to be found in greater purity than in the writings of phyficians.

It appear'd to me at firft fight, that on fo copious a fubject it would be eafy to make an oration; but upon maturer deliberation I began to think quite otherwife; and fo, having laid down a burthen too heavy for my fhoulders, and left it to more fublime geniufes, I kept to my practice, my labour is

14 On the Difeafes of
bere engaged, and not my eloquence; and, having refigned the hopes of declaiming like an able orator, or foothing your ears with the allurement of words, I have chofen this fubject, as capable of pleafing you by its own force; and as it is fufficient barely to lay it before you, it requires no ornaments:

De tauris dicit arator, navita de ventis.
2uod medicorum eft promittunt medici.

The plowman talks of oxen, the failor of the wind.
Pbyficians offer what belongs to their profefion.

And addreffing myfelf to learned men as a phy fician, I hall treat of the health

Literary and Sedentary Perfons. 15 of ftudious men; and here again I muft requeft your indulgence:

Dira per incautum Serpunt contagia vulgus.
A dire contagion tbrough the vulgar spreads.

But whilft I was hurried about to attend a crowd of patients, 1 had no leifure to polifh my work; therefore I have without method thrown together my thoughts and obfervations on this ufeful topic.

It is an old complaint, that fudy, though effentially neceffary to the mind, is hurtfui to the body; and Celsus has intimated the neceffity of a remedy. Thofe that are of weak confticutions, fays he, as moit fudious men are, fiould take greater care than others,

16 On the Difeafes of
others, that what is impaired by application to their ftudies may be repair'd by attention to their conftitutions. And Plutarch, an admirable judge of what is right and becoming, declares it to be a fhame, that the learned fhould fpend days and nights in ufelefs inveftigations, and at the fame time neglect the art of preferving their health; being, doubtlefs, ignorant that the healing fcience was formerly look'd upon as a part of wifdom, and that thofe chiefly requir'd medical affiftance, who have impair'd their bodily ftrength by anxious thought and watchfulnefs.

There are two principal fources, from whence all the fufferings of the fudious flow; the conftant exercife and application of the mind, and the continual reft of the body; for they are

Literary and Sedentary Perfons. 17
as indolent in body, as they are buly and active in mind. By enumerating the ills, that arife from both caufes, a dreadful crop of difeafes will be difplay'd.

Let metaphyficians bewilder themfelves in inquiries, how the mind governs the body, and is govern'd by the latter in its turn; phyficians, defeending to confiderations of lefs importance, but of greater certainty, perhaps, and little follicitous about the caufes of this mutual government, and but confining their inquiries to phænomena, know by experience, that certain emotions of the mind neceffarily arife from certain conditions of the body, and that by particular emotions in the mind particular changes are unavoidably produc'd in the body, and that

18 On the Dijeafes of
that whilft the mind thinks, fome part of the brain is Aretch'd. We make no other inquiry; it would be of no ufe to know any thing farther.

So clofe is the connexion between mind and body, that we cannot well conceive the operations of the one independent of fome correfpondence with the other. For as the fenfes are incapable of conveying the materials of thought to the foul, withcut the motion both of their own fibres and thofe. of the brain, fo, whilft the mind revolves thefe cogitations, the organs of the brain are more or lefs ftimulated to act, ftretch'd, and have ofcillatory motions excited in them. The mind agitates the machine; and thefe are the labours of the medullary part, which, being fo tender, does not fuffer the less

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lefs by thefe motions; and every man eafily feels that in himfelf, which the ftrongeft arms experience after the moft violent exercife.

For which of you, that has been addicted to a ftudious life, has not often found, after intenfe thought, that the innermoft part of the brain has been affected by a troublefome heat, and intenfe pain, fuch as the mufcles feel when fatigu'd with long labour? Nor does the medullary part of the brain. fuffer alone, but the very eyes themfelves can perceive the force of the thinking foul, extended beyond the brain: for whilf we look upon a man that meditates ferioufly, all the mufcles of his face appear ftretched, nay fometimes convuls'd. Nor does the brain, the medulla of which is the fource of the
the nerves, fuffer alone, but they themfelves are hurt; and Plato has admirably thewn, in the mafculine fyle in which he fo greatly excell'd, how much the exercife of the mind prejudices the body. "Quando anima, " inquit, corpore admodum potentior " eft, exultatque in eo atque effertur, "totum ipfum intrinfecus quatiens " languotibus implet. Quando etiam " ad dicendum, inveftigandumque, col" lectis in unum viribus, vehementer " incumbit, liquefacit prorfus corpus, " \& labefactat; denique cum ad di" cendum, differendumque privatim " \& publice ambitiofa quadam con" certatione contendit, inflammat cor" pus atque refolvit. Tam arcta enim " lege confortii, fic Ramazzini, fœ" derantur anima \& corpus ut omnia " tam bona quam mala unius in alte-

Literary and Sedentary Perfons. 21
"rum vicifim corrivent, ac veluti, ex " corporis nimia exercitatione, anima " ad mentis functiones languefcit, ac " torpet, fic ob nimiam animæ con" tentionem, circa fapientiæ fludium, " corpus marcefcat neceffe eft, ab" fumptis nempe fpiritibus, communi " fcilicet inftrumento ad materiales \& " fpirituales operationes rite obeun" das." "As the mind, fays he, " is far more powerful than the body, " and exults and is elate therein, it "affects it inwardly, and fills it en" tirely with languor; and when, by " gathering together its ftrength, it " applies earnefly to learning and to " the inveftigating of things, it quite "diffolves and unhinges the body: " finally, when with an ambitious " emulation it exerts itfelf to fpeak " and harangue both in private and " public,
"public, it inflames the body and re" laxes it. For, as Ramazzini ob-
" ferves, the foul and body are united " by fo firm a league, that all the " advantages and difadvantages of the " one muft affect the other; and as " the foul is rendered languid in the " mental functions, and become fupi" fied in the fame manner by the too "great application of the mind to the " ftudy of wifdom, the body muft " unavoidably pine away, the animal " fpirits being confum'd, which are " the only inftruments of rightly per." forming both material and firitual " operations (b)." Thefe are indeed obfervations highly juft. For he who is not ignorant what a multitude of nerves there are in the animal fyftem, who is fenfible that there is no function

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\text { (b) Plato's works, p. } 648 .
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that can be performed without them, will eafily apprehend that by the fatigue of the medulla a languor may be brought upon all the nerves, fo that the feveral functions may be weakened, and the ftrength of the body may, without its being exercifed, be totally exhaufted.

It is univerfally known that there are books compos'd without any ftrength of genius, which appear quite infipid and unaffecting to the reader, and only tire the eyes; but thofe that are compos'd with an exquifite force of ideas, and with an exact connexion of thought, elevate the foul, and fatigue it with the very pleafure, which, the more compleat, lafting, and frequent it is, breaks the man the more ( $c$ ). Male-
(c) 'Tis an admirable obfervation of Montesquieu: All things fatigue us at laft, and above

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24 \text { On the Dijeafes of }
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Malebranche was feized with dreadful palpitations in reading Descartes's Man; and there is fill living at Paris a profeffor of rhetoric, who fainted away whilft he was perufing fome of the fublime paffages of HoMer (d).

The head itfelf, and the nerves, and the ftomach which is fuller of nerves than any other part, firft fuffer for the errors of the mind.

An eminent perfon, who had impair'd his health by too intenfe an above all great pleafures; the fibres, that were the organs of it, ftand in need of reft: we muft employ others better adapted to ferve us, and thus, as it were, divide our labour. Efay upon tafte.
(d) Lorry upon melancholy and melancholy diforders. Tom. I.

Literary and Sedentary Perfons. 25 application to fudy, was immediately feiz'd by a terrible vertigo, if he happen'd to liften attentively to a perfon telling a ftory. He likewife complained, that nothing could give him greater uneafinefs than his attempting to recall the memory of any thing, for then he was put to the greateft pain imaginable, and fometimes feiz'd with a fainting fit, attended with a fenfe of extreme laffitude. Nor could he defift from his effort after he had once begun it, though he labour'd ever fo much for that purpofe; but was under a neceffity of proceeding as he had begun, till he fainted away (e). The illuftrious Viridet, formerly my fellowcicizen, knew a woman who, whenever the us'd any application of mind,
(e) Van Swieten's Comment. in BoerhaviI aphor. Tom. III. p. 413.
was feiz'd with a fevere fit of the colic $(f)$. And a late author fpeaks of a man who never either thought intenfely, or experienc'd any lively fenfation, or was put in a paffion, but his whole arm immediately fwell'd up (g). Both of which cafes may be explained by the defect of the nerves alone, and the action of the mind upon the nerves.

Daily obfervation proves the force of the mind's action upon the fomach ; and this every man has an opportunity of experiencing in himfelf; for the more intenfely any man thinks, and the more ftrongly he exerts the reflecting powers of his mind, the more flowly and with the greater difficulty,
(f) Traité du bon chyle, tom. II. p. 647.
(g) Th. Bordeux, prix de l'academie de chir. tom. VI. p. 199.

Literary and Sedentary Perfons. 27
cateris paribus, does he digeft what he eats; and, on the other hand, the freer a man's mind is from reflexion, the more readily and the better he digefts. It is obfervable that fools always eat and drink a great deal, and yet digeft perfectly well, even though they lead a fedentary life, and do not furpafs others either in the bulk or frength of their bodies: whillt men of genius and abilities, though they have ftrong mufcles, and take exercife fufficient, are obnoxious to crudities in the ftomach and flownefs of concoction (b). Boerhative, who refided a long time in a city renown'd for learning, has obferv'd that ftudies excite a difagreeable fenfation at the upper orifice of the ftomach; and that, if this be neglected by the ftudious,
(b) Conf. Fleming Neuropathia, praf.

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madnefs enfues (i). My illuftrious friend Pome knew a man of learning, who had made his ftomach fo infirm by intenfe application, that immediately after eating he vomited ( $k$ ). I myfelf have feen fome, who, when their minds were wearied out with conftant ftudy, being taken ill, at firf loft all appetite, then were feiz'd with a weaknefs of their whole bodies, and at laft with dreadful paroxyfms, which began with vomiting, and ended in convulfions and a total privation of their fenfes.

Soon, by an unavoidable fatality, the diforder that had affected the body recoils upon the mind; for the Author of nature has ordain'd that moft of the
(i) De morbis nervorum, p. 456.
(k) Traité des vapeurs byfteriques, p. 248.
opera-

Literary and Sedentary Perfons. 29 operations of the latter fhould ftand in need of the affiftance of the former; which has given occafion to the following juft obfervation of Pliny the younger ( $l$ ), and long before him it was obferved by Democritus, that the mind is fupported by what fupports the body. "Augefcit mens cum adeft " fanitas, adeoque huic ut profpiciant, " qui recte fentiant confentaneum eft: " ubi vero corporis habitus dolet nec " mens ad virtutis meditationem eft " alacris. "The mind acquires new " vigour whilft the body is in health; " therefore all thofe who think juftly " will take care of the latter: but, " when the body is in a painful ftate, " the mind is lefs alert in the medi" tation of virtue $(m)$. Should it then
(l) Epiftol. lib. 2. ep. 9. (m) Epifol. ad Hippocratem. Hipp. Foefii. tom. II. p. 1288.

30 On the Difeafes of
feem furprifing, if, when the tenor of the brain and nerves is broken by the efforts of the mind, the latter fhould decline in its turn? Firft of all it is depriv'd of its fortitude; diftruft, terror, and melancholy, feize upon it; and he who would have ftood undaunted amidft a falling world a few months before, is every moment fill'd with terror and confternation, as foon as his nerves are affected by a hypochonảriac diforder. Relentlefs tyrants may have condemn'd to death philofophers whom they hated; but it never was in their power to fubject them to the dread of death, which they had long thaken off. O how much more cruel would they have been, if they had granted them their lives, and had it in their power to torment their minds with hypochondriacal terrors!

Thus

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Thus render'd unequal to the tafk of fudy, the learned are at laft under a neceffity of quitting their belov'd purfuits; for, as the ftrength of their nerves diminifhes, their attention fails, the memory begins to lofe its tenacioufnefs, the ideas are obfcur'd, and an uneafy fenfation of heat over the whole head, a dreadful palpitation, the moft extraordinary weaknefs, and a groundlefs fear of approaching death, oblige them to difcontinue their application. Their frength being at laft repair'd by reft, nourifhing aliments, and exercife, they renew their affiduity in ftudy, but are foon oblig'd to quit their books as before. Thus the whole day is loft; and when evening approaches and they retire to bed, their weaknefs and anxiety make them pafs their nights moft difmally, whilt the great mobility of their nerves pre-
vents their fleeping, and fometimes increafes to fuch a degree as totally to deprive them of the power of thinking. I know a young man, upon whom an intenfe application to fludy had this extraordinary effect, that, if he read even a few pages, he was torn with convulfions of the mufcles of the head and face, which affum'd the appearance of ropes ftretch'd very tight.

Nor does too intenfe an application produce only flight and tranfient convulfions of the mufcles; it likewife renews and generates the moft dreadful nervous diforders. Galen ( $n$ ) mentions a grammarian, who was feized with a fit of the epilepfy, whenever he meditated profoundly, or taught
(n) De locis affectis, lib. 5. cap. 6. Charter. tom. VII. p. 492.

with inftances of it. And the illuftrious Van Swieten laments the cafe of youths of the brighteft hopes, who have been feiz'd with a dreadful and incurable epilepfy, upon being compell'd by fevere mafters to apply to their fludies with fcarce any intervals of relaxation. Hoffman (0) makes mention of a young man, who, as often as he weary'd out his memory and his genius by attentive ftudy, was feiz'd with a momentary epilepfy, a palpitation of the heart, and a trance ; but when he remitted of his affiduity, was a'ways tolerably well. This the celebrated Petrarch likewife unhappily experienc'd, being feiz'd with an epilepfy through his great application to ftudy, to which he was immoderately attach'd. In a public promotion, one

(o) Medicin. ration. de epilepfia. § 19.

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34 On the Dijeafes of
of the candidates for literary honour, after having purfu'd his ftudies with the moft arduous application both day and night, through a too great attention to his oration, that he might be able to fay it accurately by heart, was fuddenly feiz'd with a catalepfy and fell down ( $p$ ).

The labour of the mind not only produces nervous diforders, but, by means of the nerves, gives rife to other complaints. An eminent mathematician, who was troubled with an hereditary gout, and had always liv'd foberly and chaftely, haften'd a paroxyfm by applying a long time to the folution of a difficult problem (q). And the cafe of the chevalier de Per-

> (p) Felic. Plateri obfervat. p. 28.
> (q) Van Swieten, tom. IV. p. 305.

Literary and Sedentary Perfons. 35 nAY is very extraordinary. After four months of the clofeft ftudy imaginable, and without any previous diforder, his beard fell firft, then his eye-lafhes, then his eye-brows, then the hair of his head, and finally all the hairs of his body $(r)$. Did this proceed from the great relaxation of the roots, from which the hairs grow; or from the want of nutrition? Certain it is, that an intenfe application of mind relaxes the whole corporeal frame, and prevents all nutrition for two reafons; for this is the effect of thought, not upon all, but upon moft conftitutions, that it accelerates the pulfe, and produces a fever, which, by diffolving the nouriming jelly of the fluids, occafions palenefs, leannefs, confumption, and a fort of wafting of the nerves; on the (r) Gazette de France, Fevr. 25, 1763.
$3^{6}$ On the Difeafes of
other hand, the ceffation of the action of the nerves, is capable of producing it. Nor does it lefs ceafe in the whole body, whilft it is obftructed by application of mind, than when it is ftopped by a fwelling or a ligature in any part. We fhould not be too inquifitive in prying into caufes; and many circumftances relating to nervous diforders will for ever remain unknown: but if any one fhould be curious to know how the too great tenfion of the nerves is hurtful, I will briefly give him my fenfe of the matter. The body is exhaufted by too great an evacuation; hence arifes weaknefs, an extraordinary tenuity of the humours, and, what it is generally productive of, a difeafed mobility. Suppofe the blood were to run copioufly from a wound, or the gaftric fluids

## Literary and Sedentary Perfons. 37

were to be pour'd forth by the anus, or the breafts fuck'd too long, or a greater difcharge of faliva made by fpitting, or the wretched body were to be troubled with a long diabetes, or in fhort, any other evacuations were too much increafed, the ftrength would decline, and the health be loft ; but whilft the nerves act, their fluid runs out of the body, and carries off the ftrength with it ; nor is there any thing in the body either more labour'd, more neceffary in many animal functions, or more intimately connected with ftrength. In ftudious men, therefore, a perpetual diffipation of the nervous fluid fprings from the inceffart action of the nerves, attended with weaknefs, and an extraordinary mobility, from whence all the abovemention'd difeafes eafily take rife ; thefe
$3^{8} \quad$ On the Difeafes of
are very dreadful, but difeafes ftill more dreadful remain to be defcrib'd.

It is not eafy for the mind not to throw out at will fuch motions as it has powerfully conceiv'd; and this is a fecond caufe of the difeafes of ftudious men, from whence fpring fo many errors and wanderings of the mind, to be chang'd for death only, fo many phrenzies and deliriums: for whilft ideas no longer anfwer to their external objects, but to the internal difpofition of the brain, the latter being agitated by its own motion, either entirely, or in part, is unable to receive new vibrations, to be tranfmitted, all, or fome, by the fenfes; whereas thofe that are fpontaneous cannot be check'd.

## Literary and Sedentary Perfons. 39

The brain of Blaise Paschal was fo vitiated by paffing his life in the laborious exercifes of ftudy, thought, and imagination, that certain fibres, agitated by inceffant motion, made him perpetually feel a fenfation, which feem'd to be excited by a globe of fire being plac'd on one fide of him; and his reafon being overpower'd by the diforder of his nerves, he could fcarce banifh the idea of the fiery globe being actually prefent. Spinello painted the devils thrown from Heaven by the Almighty, and gave fo fierce a countenance to Lucifer, that he was ftruck with horror himfelf; and during the remainder of his life, his imagination was continually haunted with the figure of that demon, upbraiding him with having made fo fhocking a portrait of him. There are

40 On the Difeafes of.
many others, whom the force of genius too much rous'd, has for ever hurried beyond the boundaries of truth. Gaspar Barleeus, who was at once an orator, a poet, and a phyfician, was not ignorant of this danger, concerning which he admonifh'd his friend Constantius Huygens (s); but being blind with regard to himfelf, he by immoderate ftudies fo broke the force of his fenforium, that he thought his body was made of butter, and carefully fhun'd the fire, left it fhould melt him, till being at laft tir'd of his excruciating fears, he leapt into a well.
(s) Epifol. L. 2, ep. 40. Neither write back to me in profe or in verfe, left you fhould bring your health, which is not yet confirm'd, into new danger; for the firits will be eafily warm'd by attention : hence blood, hence the habit of body.

Literary and Sedentary Perfons. 41
I muft fill grieve for a friend of a penetrating genius, an excellent underftanding, of ftrict morals, and one that feem'd born for a better fate; who being animated with too great a love of learning, and in particular of the medical fcience, by reading night and day, obferving, making experiments, and meditating, at firft became fleeplefs; then began to talk, fometimes incoherently, and fometimes rationally; at laft run mad, and having fcarcely efcap'd with life, never recover'd his reafon. I have known many others, who by ftudy alone were firft rendered phrantic, or crazy, and at length became idiots. I love, efteem, and honour an illuftrious man, and a man of extraordinary abilities, who being twelve hours intent upon fettling a difficult memorial, after having finifh'd his

42 On the Difeafes of
his work, became delirious till a foft fleep quieted the ftate of his nerves. Obfervers give us accounts of many fimilar cafes, and I was inform'd by a witnefs who may be confided in, that Peter Jurieu was formerly famous for his talent at difputing, by his labours in writing books of controverfy, and expounding the apocalypfe, fo diforder'd his brain, that though he thought like a man of fenfe in other refpects, he was firmly perfuaded that the feven fits of the cholic, with which he was tormented, had been occafion'd by a conftant fight between feven horfemen that were fhut up in his bowels. There have been many inftances of perfons, who thought themfelves metamorphos'd into lanterns, and who complain'd of having loft their thighs.

Literary and Sedentary Perfons. 43
But thofe are affected in the moft dangerous manner, who dwell too long upon one and the fame thought; for thus one part of the fenforium being longer ftretch'd than the reft, without being ever reliev'd by the others in their turn, is the fooner broke; for as the body fuffers more if one or but a few mufcles alone act, fo the brain is the lefs fatigued when various parts act fucceffively; the part which difcontinues recoversits ftrength, whilf the others are at work; and that is durable which does not want alternate reft.

Many years ago I knew a woman, who appear'd to have very good fenfe for five and twenty years ; but having, unhappily for her, embrac'd the fect of the Herrenhutters, the became entirely

44 On the Difeafes of
tirely inflam'd by the love of our bleffed Saviour, and of him alone; and the dwelling entirely upon this idea both day and night, it fo broke the tone of her brain, that in a few months time the became an idiot ; but ftill fhe was fo mindful of her Lamb, that vifiting her every day for half a year together, and frequently addreffing my difcourfe to her, I could never hear any other words from her than my 'rweet Lamb; and this The utter'd every half hour, with downcaft eyes, and was the only word fhe fpoke for a year and a half; which time being elapfed, fhe pin'd away and died. And to pafs by other examples, there was not long ago in this academy, a young man of bright hopes, who being too earnefly folicitous about fquaring the circle, died mad in the Paris hofpital.

Literary and Sedentary Perfons. 45
The third caufe of the diforders of the brain, is, that law to which the human machine is fubjected; that a new quantity of blood fhould be added to the part that acts. The illuftrious Morgagni knew a man of learning at Boulogne, who whenever he gave his mind to abftract meditations in the morning, before he rofe, was fure to bleed at the nofe for a fhort time after $(t)$. Therefore as often as the brain increafes its action, it is moiften'd with an additional quantity of blood, which, giving a new tenfion and a quicker motion to the veffels, brings on both the fenfe of pain and heat already mentioned, and many more grievous fymptoms: namely, according to the different ftate of the brain, of the
(t) De Jelibus Eo caufis morbonum. cp. 3. \$ 13.
blood,

46 On the Difeafes of
blood, and external objects, it occafions dilatations of the veins and arteries, obftructions of the nerves, inflammations, fuppurations, fcirrhous tumours, ulcers, dropfies, and thence head-achs, deliriums, drowfinefs, convulfions, lethargy, apoplexy, and continual obftinate watchings, which cruelly torment the ftudious, and afflict them with new difeafes; for what difeafes, what perturbations of the mind do not protracted watchings give rife to? The great Boerhaave was fix weeks without fleep, after profound ftudy and meditation; and at the fame time fo indifferent to every thing, that fcarce any object whatever affected him (u). And which of you, learned auditors, has not found by experience,

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\text { (u) Pralect. ad infit. t. 7. p. } 145^{\circ}
$$

Ziterary and Sedentary Perfons. 47 that a flight and difturb'd fleep, a fleep that fcarce gives refrefhment, generally follows a day pafs'd in ftudy. A flight irritation of the brain caufes want of fleep ; from one more confiderable arife convulfions and drowfinefs; from the greateft of all a mortal apoplexy, which diforder often puts an end to the lives of learned men. The reafon is, that that part fuffers which was guilty of the excefs, and whilft the ftrength of the brain is relax'd by ftudy, and frefh blood is forc'd into it, it muft fooner or later be quite overwhelm'd, efpecially at the time that fome new caufe adds force to the blood that impells it; thence it has frequently come to pafs, that learned divines in preaching, and learned profeffors in delivering their lectures, or difputing, as was the cafe with the celebrated Curtius
4. On the Difeafes of
at Leipfick, expir'd on their very chairs; and Livy the hiftorian has preferv'd to us the hiftory of king Attalus, who died in the affembly at Thebes, whilf he was animating the Bœotians by an harangue to enter into an alliance with the Romans.

I faw a reverend paftor, who on Whitfun-funday, after having preach'd long and with vehemence, whilft he was diftributing the hoft to the people, was firf feiz'd with trembling, then flammer'd, then was delirious, then fell down in an apoplectic fit, and continuing delirious ever after, though in an advanc'd age, liv'd for fome months in a flate of infancy. The celebrated Morgagni likewife mentions a preaching monk, who was feiz'd with a violent apoplexy before his

Literary and Sedentary Perfons. 49
his congregation, and quickly died; his vehemence of delivery confpiring with a plethora to deftroy $\operatorname{him}(x)$. A profeffor at Berne, deeply verfed in the oriental languages, a man in the prime of life, but of indefatigable induftry, not long fince funk into a fecond infancy, and a ftate of idiotifm, his brain being overflow'd by water, which ftagnated in it ( $y$ ).

We muft not forget, in enumerating the injuries fuffered by the brain from this overflowing of the blood, that the diforder of the nerves which caufes the hypochondriac difpofition, is increafed; their little tubes being dilated
(x) De fedib. ©゚ cauf. ep. 3. §. 17.
(y) Halleri Element. Phyfiologia, t. 4. p. 317.

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and
are conftantly weaken'd, grow foft, and make lefs refiftance to impreffions, which is one of the chief caufes of the hypochondriac diforder.

Nor do the fufferings of ftudious men end here, fince from another law, which holds equally in the animal wconomy, a fourth caufe of the diforders of the learned fprings from an over violent labour of the mind; for the animal fibre is indurated by being ufed, the whole machine grows callous as it grows old; the parts that are exercifed by labour become hardened in workmen; the brain of ftudious men contracts a callofity, fo that becoming unequal to the tafk of forming ideas, they fall into a premature dotage: thus the too great foftnefs of an infant's brain, and the too great hardnefs

Literary and Sedentary Perfons. 5 I nefs of a brain occafioned by ftudy, are equally ill adapted to produce thofe vibrations, without which the force of thought is loft. Let the fibre be moiften'd with water, or fliffened with lime and fand, it in both cafes becomes equally incapable of performing its funclion. At firft the memory is impair'd, as Galen jufly obferves, and then reafon itfelf is difturb'd $(z)$.

Nor is there any neceflity that the mind hould meditate great and fublime objects, to impair the ftrength of the nervous fyftem; a too protracted ufe of the eyes has often given rife to innumerable nervous diforders; concerning which, the teftimony of Gunzius is of the utmoft autho-

> (z) De locis affectis, 1. 3.c.5.

D 2
rity.
52. On the Difeafes of
rity (a). And every weak man muft know by experience, how much too great a ufe of the eyes weakens the head. Of this I have already given an example, and have often found it by experience; for when I contemplate any object a confiderable time, after the fit of a fever, or any other diforder, and before my health is quite recovered, I am feiz'd with a vertigo, a ficknefs in the ftomach, and a difagreeable liftleffnefs of the whole body.

In order to vindicate literature from the charge brought againft it, you will doubtlefs object, that many men of profound learning, have liv'd to the moft advanc'd age, and retain'd their powers both of mind and body un-
(a) Ad libellum Hippocratis de bumor. p. 2 II.

Literary and Sedentary Perfons. 53 impair'd to the laft. I have heard of many, I have myfelf feen more ; nor can either you or I ever forget that truly illuftrious man, that man of univerfal learning, who as he was worthy of it, enjoy'd general love and veneration; who was the ornament, honour, and delight of this academy for above fifty years, and whom we all with equal wonder and fatisfaction faw enter upon his goth year, without either his reafon, or his fenfes being in the leaft impair'd. But all are not equally happy, and there are few men endued with fuch ftrength, both of mind and body, as to undergo fuch labours with impunity, if even thofe can be faid to undergo them with impunity, who attain to that fage of life, which they perhaps would have greatly exceeded, had they liv'd in a D 3 dif-

## 54 On the Difeafes of

different manner. Some men are by nature infatiable in drinking wine, others are born cormorants of books, and never glutted with the acquifition of learning: nor fhould it be pafs'd over in filence, that almoft all the learned men, who are look'd upon as its mafters by the human fpecies, all liv'd to a great age; as Homer, Democritus, Parmenides, Hippocrates, Plato, Plutarch, Lord Bacon, Galileo, Harvey, Waliis, Boyle, Locke, Leibnitz, Newton, Boerhaave. Can it then juftly be inferred, that violent exercifes of the mind are not hurtful? Take care how you draw fo falfe a conclufion? But, as I faid awhile ago, fome men are born with happy conflitutions for meditation, and perhaps that excellent conftitution of the fibres, productive

Literary and Sedentary Perfons. 55 of longevity, is the fame that prow duce great geniufes;

> Mens Jana in corpore fans; A found mind in a bealtby body;
and confequently the great men, whom I have jut mention'd, owed their repotation more to their extraordinary genius, than to induftry and applicaton; and prevented the ill effects of their fevered fudies, by allowing themfelves intervals of leifure, by taking proper exercife, and by the diffipation both of bufinefs and amusement. Nor did they lead the life of abstracted students, a fpecies of men little known to the ancients, and who took their rife firft at the declenfion of literature, were renew'd at its revival, and may be propertly compar'd to the Indian fakirs; D 4 for

56 On the Difeafes of
for both bid farewell to the human race, and both of their own accord, and generally without any emolument to fociety, emaciate and inflict aufterities upon themfelves; the former by the fun, by cold, by nails, by chains, by whips; the latter by books, manufcripts, coins, monuments, and almoft all by inaction, and the want of bodily exercife. This is another, and a moft prolific fource of the diforders which afllict men addicted to fudy; for the human machine was form'd and intended for action by the fupreme artificer: therefore health is infeparable from action, which will be eafily conceiv'd by whoever examines the human body with attention.

It confifts of containing and moving veffels, contained and moved fluids: if

## Literary and Sedentary Perfons. 57

the fibres or veffels have a proper tone, if the fluids have a proper confiftence, if the motions, by which they fhould be continually agitated, are neither too violent, nor deficient, we enjoy a good ftate of health. But it fhould be taken into confideration, that motion is here the chief agent, for, that alone being chang'd, the whole ftate of the folids and fluids is chang'd likewife: if it be increafed, the folids grow harder, and the fluids are comprefs'd; if it be diminifhed, the fibre becomes relaxed, the denfity of the blood is leffened, for the whole body is form'd of a chyle, which is fofter and lighter than any part of the body, either folid or fluid, whofe fmall particles a continual motion unites and ftrongly compreffes; and if this motion fhould D 5
fail,

58 On the Difeafes of
fail, the parts muft prove deficient in their due firmnefs.

But the heart is the fource of all the motions in the animal machine, the principle which puts the whole mafs of fluids in motion, but is not alone fufficient for that purpofe; wherefore pature has given it many helps, which mever difcontinue or remit, but the circulation becomes flower, and difeafes arife from the motion of the fuids being retarded. The chief of thefe helps is the mufcular motion, whofe extraordinary force in quickening the circulation, the moft ignorant furgeon every day difplays to the eyes of all fpectators, by an eafy experiment, when upon opening a vein he bids the patient move fome cylindrical inftument round about in his hand,

Literary and Sedentary Perfons. 59
hand, in order to accelerate the emiffion of the blood: nay, every man may eafily perceive in himfelf, how much the quicknefs of the pulfe is increafed by the motion of the body; and thefe are the effects of motion, it Charpens the appetite, it frengthens the fibres, keeps up a due temperature of the fluids, promotes all the excretions, fortifies the mind, and gives a pleafing fenfation to the whole nervous fyftem; whereas by too great floth, the mufcular ftrength is firft deftroy'd for want of practice; and from a neglect of exercife there fprings an impotence of motion: the circulation which is carried on only by the ftrength of the heart and the veffels, and deftitute of external helps, firft languifhes in the moft minute veffels, and then in every part of the body; the heat decreafes,

D 6 the
the humours flagnate, and contract a vitious difpofition; for fome of them lofe part of their denfity, others part of their tenuity, and they all become giutinous, and of confequence unfit for fecretions; therefore what fhould be fecreted is retain'd, the body is loaded with a mafs of adventitious humours, it is deftroy'd by their acrimony, the vigour of life is benumb'd, the frength declines, the blood is diffolved to water; bence arifes a dropfy, a diforder in a manner epidemical to men of learning, by which the brain is often affected. An inftance of this I lately faw, with concern, in an eminent man, whofe cafe I difcover'd too late, and who not by literary purfuits, but other exercifes of the mind, and total inaction

Literary and Sedentary Perfons. 61
of body, had broke a conflitution which once was robuft (b).

Thofe parts fuffer the moft, which having but weak folids, they want external helps more than any others; hence thofe organs are moft affected by in-
(b) In ftudious men, who Iead a fedentary life, whilft they grow pale with poring over books, an apoplexy often arifes from fuch a caufe; but it comes on flowly aud gradually. For the firft fymptom is languor, and a love of indolence; then the underftanding begins to grow dull, the memory to flag; they become fleepy, ftupid, and often continue a long time in that ftate before their death. I have feen, and not without the greateft compaffion, men of the moft profound learning, and who had deferv'd highly of the republick of letters, who, as it were, furviv'd themfelves above a twelvemonth in a fate of total oblivion, and at laft died of apoplexy. Van Swieten, tom. III. p. 263.

## 62 On the Difeafes of

action, which, being contained in the abdomen, perform the firf digeftion of the aliments : the ftrength of the ftomach is diminith'd, the nature of the gaftric fluid is chang'd, the aliments make a longer fay in it, and, not being fufficiently fubdu'd by the animal force, they go through their fpontaneous changes which they would have undergone out of the body. Mort vegetables retain their tattnefs, which, by vellicating the nerves, occafions pains and convulfions; acid eructations arife, the cardia fuffers pain, the thrcat is parched, and the teeth blunted. On the contrary, both flefh and egos rot, and fat aliments grow rank: hence proceed putrid eructations, immoderate thirft, and continual fluxes; digeftion is always difficult, troublefome, and malignant; the aliments ceafe to afford

Literary and Sedentary Perfons. 63 nourifhment, nor do they any longer repair, but irritate and weaken.

The exhaling veffels no longer pour forth a dewy, mild, and faponaceous lymph, but they throw out a thick glue, which affects the fick with a conftant pain and fenfe of a heavy weight, and of cold at the ftomach, and creates the utmof loathing. The confequence is the fame when the inteftines, being of the fame ftructure with the fomach, fuffer the fame injuries: the action of refpiration firft begins to fail, whofe alternate compreffions, whilft it is accelerated by the mufcular motion, comprefs and ftrain all the vifcera of the abdomen; their irritability is loft, the body is generally coftive ; there is here likewife accumulated, a troublefome phlegm, the
pro-

64 On the Difeafes of
prolific mother of difeafes. Thus it once happen'd to the celebrated Justus Lipsius, profeffor of hiftory at Leyden, who being long ill, and under the care of his illuftrious colleague and friend Heurnius, found no relief till he had voided a fubftance refembling the inteftines both in figure and colour; it was a tough and vifcid phlegm, gradually collected in the whole tube of the inteftines, through a fedentary life wafted by ftudy; and this phlegm, turning to putrefaction, made a jakes of the whole body. The fomes of the difeare being thus purg'd off, he was reftor'd to health (c).

The collected excrements comprefs with their bulk the neighbouring parts,
(c) Adam vita medicorum, p. 372 .

Literary and Sedentary Perfons. 65 irritate the inteftines by their corrup. tion, and by abforbing the putrid matter infect the whole mafs of blood. From all thefe caufes put together arife thofe excruciating pains in the bowels which often torment the fudious, and are with difficulty curd, as they are perpetually renew'd by errors in diet $(d)$. Hence that troublefome fiatulency, fo hurfful to fedentary men, which torments the learned a thoufand different ways, and often pafies for other diforders.

The inteftines are not only affected, but the functions of the neighbouring
(d) We meet in the medicinal diary with an account, very well worth reading, of a fevere colick, attended with other bad fymptoms, and occafion'd by intenfe fludy and nocturnal lucuorations. Tom. I. p. $35^{2}$.
parts are difturb'd, as well from the violence of the compreffion as from their own difeafes; the pancreatic juice grows vapid and ftale, the functions of the fpleen are vitiated, the repofitories of the bile are much difturb'd; by its ftagnation it loads the liver, forms obftructions in it, thickens and grows hard itfelf, and flows flowly tothe inteftines; whence their diforders, efpecially thofe of the jejunum, and vices of the chyle, increafe; being fcarce. able to pars through the narrow neck of the cyftic duct, it often concretes into a ftone, and occafions thofe fevere colics with which the celebrated $\mathrm{I}_{\mathrm{G}}$ natius, founder of the Jefuits, was formerly afflicted, and with which the learned are often tormented $(e)$. If at
(e) Van Swieten, tom. III, p. 87. ex Co* lumbo.

length

Literary and Sedentary Ferfons. 67 length by fagnating it putrifies, it then erodes, ulcerates, inflames, and affumes the appearance of all the innumerable diforders of the liver, and produces inconceivable anxieties. There are likewife caus'd, though with lefs danger, by that cruel difeafe call'd the hypochondriac; the firf fpecies of which, mention'd above, and call'd the nervous, is occafion'd by exceffive labour of the mind; the other, I mean the abdominal fpecies, arifes from a difturb'd circulation in the abdomen. With both thefe diforders the learned are afflicted, and therefore feldom or never live free from this evil; and, whilft one of thefe adds force to another, they are feldom entirely cur'd of them $(f)$.

Con-
(f) Experience fhews us that men of learning, though naturally of a chearful difpofition, become

Confidering they occur fo frequently, it is hardly neceffary to give examples; but if I were to cite examples, the firft that would occur to my mind would be that of the illuftrious Swammerdam, that fagacious inquirer into nature, who was fo full of atrabilary humours, that he fcarce vouchfafed to anfwer thofe who fpoke to him, but look'd upon them with an unalter'd countenance; and, when he took his feat as profeffor, fat with a face of aftonifhment, and made no anfwer to the objections of his opponents. Finally, having, before his death, wafted away with a phrantic
become at laft fix'd, filent, pale, emaciated, and ftrangely troubled with the hypochondriac diforder, which generally tyrannizes over fedentary people. Ant. Felici difertazioni epifolari, p. 203.

melan-

## Literary and Sedentary Perfons. 69

 melancholy, he burn'd all the manufcripts he had by him in a fit of madnefs : being reduced in appearance to a fkeleton and the mere figure of a $\operatorname{man}(g)$, he died at length of a confumption.It has indeed been obferv'd, that this fpecies of melancholy in fome meafure promotes learning, by increafing the penetration; for, whilft melancholy men are intent upon one idea only, the mind contemplates this object alone, and confiders it on every fide; nor is it diflracted by other purfuits. But who ever proceeded to this pitch of madnefs, as to defire to purchafe an increafe of difcernment at fuch a price? Of what advantage is fcience
(g) Boerhaty. ad infitut. §. 896, tom. VII.' p. 275 .
without health? He knows too much, who is render'd unhappy by his knowledge.

It cannot indeed be denied, that there are men whom nature has endow'd with a Milonian ftomach, and inteftines of iron, who can bear with impunity the labour of the mind, bodily inaction, and exceffes of gluttony. But are they therefore more happy? By no means; for then the veffels are overwheln'd by the load of humours, the cellular membrane fwells with fat, the vifcera are prefs'd on every fide, the whole habit grows turgid, they become heavy and indolent, the flighteft motion puts them quite out of breath, and they fweat all over; at laft they die before their time, either of apoplexy, a fuffocating catarrh, or other

Literary and Sedentary Perfons. 7 I o:her difeafes occafion'd by plethora: and it has been jufly obferv'd, that too ftrong a ftomach has often prov'd fatal to the learned *.

There is no part of the body which is not at laft affected by inaction; for the blood being vitiated, all the parts, which it wafhes, catch the infection fooner or later; the lungs are overwhelm'd with a mucous fubftance, this gives rife to a cough, a fhortnefs of breath, an afthma, an impofthume. This the illuftrious Triglandus unhappily experienc'd, who, having contracted a bad habit of body by a ftudious and fedentary life, from which BoerhaAve himfelf diffuaded him, wafter away with an impofthume and died,

* Lancisus de mortu fubit. 1. i. c. 22.


## 72

On the Dijeafes of
after having fuffer'd the moft excruciating torments (b). By the mucous matter being harden'd the lungs of Swammerdam were turn'd into a quarry, and he fpit up fmall ftones a long time before his death.

That the ftone, and other feverer diforders of the bladder, are the fruits of too affiduous an application to learning, is prov'd by the fad experience of Heurnius, Casaubon, Beverovicius, Sydenham, and many others, amongft whom may be reckon'd the illuftrious exile of Geneva, to whom Britain now boafts of having afforded an afylum 中
(b) Markil Oratio funebris in obitum Triglandil. Leyden, 1705.

+ The famous Rousseau; but he has fince quitted the Britifh afylum, and returned to France.

Literary and Sedentary Perfons. 73
Whilf all the excretions are difturb'd, the chief of them all, namely cuticular perfiration, is not free from difeafe. As perfpiration is greatly promoted by mufcular motion, which both prepares humours for fecretion, and gives ftrength to the exinaling veffels; fo is it greatly interrupted by the want of that motion; the humour that ought to be excreted is retain'd, and pollutes the whole mafs of the fluids, and gives rife to rheumatic or catarrhous diforders and a troublefome phlegm. Of this Horace complain. ed long fince, and with this complaint almoft all men of learning are afflicted; for they can fcarce read or write for any time, but they are immediately troubled with a llight running of the nofe, or feiz'd with a cough.

74 On the Difeafes of
From the fame fource are derived thofe irregular fevers, which often occur without any vifible caufe, whilft the unperfpirable humours, which have been generated by the defect of the ftomach, and the want of motion, are unable to pafs the cutaneous veffels.

Perpetual reft is alone able to torture thofe nerves, which have been weakened by the labours of the mind; and it often quite deftroys them, even in thofe who equally give themfelves up to indolence both mental and corporeal. For the nervous fyftem is the laft work of the human machine, and if any function fails, the nerves are immediately affected; fo that often from their defect, whenever it appears, there refults a well-grounded fufpicion of a difeafe in the ftomach, or in fome other

## Literary and Sedentary Perfons. 75

other part. They are therefore vitiated in the learned for two reafons; for, being plac'd between the mind and body, they are punifh'd though innocent, let which of the two be in fault; nor do they however go unrevenged; for the injuries they fuffer on one part they carry over to t'other, and thus, by a vicious circle, the mind hurts the body, and the body impairs the mind, and they with one accord injure and weaken the nerves.

The feminal fluid, which has been thought by fome great men not to be very different from the nervous liquor, is likewife depriv'd of its force; and upon this principle, and from an accurate confideration of what each part in a father contributes to the formation of a fon, it perhaps is not badly ac-

76 On the Difeafes of
counted for, why ftrong and illuftrious fons are feldom the offspring of illuftrious men: for the punctum faliens is contaminated at the firft moment of life, whence it receives an injury which is not afterwards to be repair'd by any art; and whilft the mind of the father was entirely given up to meditation, and his corporeal functions totally neglected, the vivifying liquor was perhaps defrauded of that part of elaboration which it fhould have had from the brain, fo as to give a proper tone to the brain of the embryo.

From that general laxity of the fibres, which is demonftrated to the fenfes themfelves by the foftnefs of the mufcles, by the force of the artery, and by that laxity of the gums which throws out found teeth without any
pain,

Literary and Sedentary Perfons. 77 pain; from that general laxity, I fay, arifes that weaknefs which oppreffes fo many learned men, and which I lately lamented to fee, whilf, as a friend and phyfician, I fat by our beloved Alphonsus (i), to whom the wifhes of the public had promis'd the age of Nestor; and all the hopes I had of his recovering his health were immediately banifh'd, by a weaknefs greater than any I remember ever to have feen, and which the Herculean labours of his mind had brought upon a thin body. How great and irrepairable a lofs was then fuftain'd by religion, virtue, the church, the city, his unfortunate family, and the youth of this academy! What a man, what a colleague, what a friend have we loft,
(i) Joh. Alph. Rosset, theologiæ profeffor, \& academiæ, hoc tempore, rector.

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\mathrm{E}_{3}
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78 On the Difeafes of
illurrious profeffors! one who, as Eu. pirates of old, was remarkable for the greateft fanctity of manners, for the utmoft care in the difcharge of all the duties incumbent upon him, which were many in number; one whofe complaifance was equal, who was entirely free from aufterity, whofe pretence excited reverence, and not dread, for he was fevere upon vices, not upon men; whofe learning was extenfive, whofe difcourfe was copious, various, and, above all, pleafing, and yet not without a Platonic fublimity; one, in fhort, who was capable of perfuading and working upon fuch as were moft averfe to his documents: having liv'd in the utmoft veneration, he left behind him the higheft regret for his lofs. But to return to our fubject from this fad digreffion.

Thus

## Literary and Sedentary Perfons. 79

Thus have I treated of the two firft caules of the difeafes of the learned; others remain fill to be fpoken of; and the firf that occurs, whilft I am upon the fubject of inaction, is the very pofture of conftant fitting, with the body ftooping, and the legs bent; for this both hurts the lower extremities, and, by obftructing the vifcera of the abdomen, foon occafions all forts of diforders arifing from indigettion: and thofe learned doctors prudently confult their health, who induige their meditations, not indeed ftanding, for that pofture is not without its inconveniences, but walking. And this is one of the bad effects of fitting, that it greatly obftructs the paffage of the blood in the abdominal veins, which makes it ftagnate at the anus, where it meets with lefs refiftance, and

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\text { E } 4 . \text { caules }
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So On the Difeafes of
caufes thofe fhocking piles that torment fo many literati, and, though praifed by fome, certainly do much more harm than good.

Nocturnal lucubrations, which are hurtful upon many accounts, muft have their place amongtt the caufes of diforders; for whilft a great part of the night is fpent in ftudy, fufficient time is not allow'd for fleep; nor does a gentle flumber fucceed meditation; a circumftance which I have already lamented: for the ofcillations of the fibres of the brain ftill continue, and that full eafe of the internal fenfes is wanting which alone is capable of repairing our loft ftrength. They likewife pitch upon an unreafonable time for fleep; for nature has affigned the firft approach of night as the proper time

Literary and Sedentary Perfons. 81. time for beginning to repofe; the night invites to fleep as well as the unwholfome air, and to this end its darknefs and filence contribute: befides, the nocturnal air is cold and moift, and, when the fun retires, moft animals feel their ftrength diminifh'd, and night forces fome of them to fleep even againft their inclinations, as it does many plants.

The night air is fo unfavourable to fudy, that the celebrated VAN SWIETEN knew a gouty man, in whom the flighteft application of mind, and even the reading of a letter, after fun-fet, occafion'd a fit of the gout. Nor fhould we: forget that fudy forces the blood into the brain, and that nothing can be more dangerous than to ftudy in bed; for

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\text { E }_{5} \text { bo:h }
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## 82 On the Difeafes of

both fleep, and the pofture of the body in fleep, increafes the quantity of blood in the fkull.

Therefore nocturnal ftudies produce all thofe diforders which the want of reft gives rife to; the organs of fenfe are principally affected; their ftrength is exhaufted, the fibres are either worn or agitated by violent motions; hence arife an incoherent feries of thoughts, a luxuriant imagination, deliriums, dreadful head-achs, and, finally, a total privation of fleep, fcarce to be cur'd by remedies, and which often occafions fatal diforders.

The injuries of watching are increafed by the ill effects of candles, which infect the air by their grofs vapour, fo pernicious to the lungs, the

Literary and Sedentary Perfons. $8_{3}$ eyes, and the nerves. It is, therefore, the higheft advantage imaginable to go to bed betimes, and rife early in the morning. Aurora mufis amica: Aurora favours the mufes.

The clofe air, which they always ufe, is hurtful; but I fhall fpeak of the air hereafter. Nor fhould their dirtinefs be forgotten, as fome learned men, entirely neglecting the care of their bodies, and not at all follicitous about cleanlinefs, difguft others, and bring upon themfelves thofe diforders which proceed from obftructed perfiration : for how can that fkin perfpire, whofe pores are ftopped up with dirt. Moft of them are extremely faulty with refpect to their teeth, which, being filled with putrid filth, and exhaling a moft naufeous ftench, firft E 6 infect

84 On the Difales of
infect all the adjacent parts, and the very faliva of the fick perfon; foon after caufe violent pains, and at laft, falling before the time, leave the fomach deftitute of the powerful aid of maftication.

Akin to dirtinefs is the pernicious cuftom of fome, who, deaf to the calls of nature, defer going to ftool, and fupprefs their urine a long time, to avoid interrupting their fudies; not refiecting that many dreadful diforders fpring from this fource.

For by too long a delay the fecreted humours become too putrid, are attenuated, irritate the inteftines or the bladcer, vitiate the mucous matter, and fometimes occafion grievous diforders of the particular organ ; the putrid

Literary and Sedentary Perfons. 85 putrid matter being abforb'd by the veffels with which all the cavities of the body abound, pollutes the blood; and, which is ftill worfe, the nerves become difufed to obey the ftimulus; nay, they fometimes, by too much tenfion, begin to grow paralytic; fo that the expulfive force, for the voiding of excrements or urine, almoft entirely ceafes, and fhould every day be renew'd by art. Whilft the illuftrious Tycho Brahe, riding in the fame chariot with the emperor, fupprefs'd his urine, he pay'd for his illtim'd modefty by death; and I even now have under my care a man of learning, who by a long fuppreffion of his urine became unable to contain it; nor can he void it when he thinks proper, but it runs from him night and day by drops.

Retire-

Retirement from all human fociety is likewife hurtful to them; for man, whom nature made for man, fhe intended alfo fhould be benefited by fociety.

But nothing renders ftudy and application more pernicious than the fadnefs that accompanies them: ftudy is capable of clouding the temper of the happieft man with melancholy: if real and external caufes of grief are added to this, the mind, overwhelm'd with fo many ftrokes, at laft finks under them, and in its own ruin involves that of the body. Anxious cares are likewife hurtful; fo that I can hardly conceive how great men, whom the difficulty of their undertakings kept in unremitting meditation, and whom the uncertainty of events fill'd with. continual anxiety, could go through with

Literary and Sedentary Perfons. 87 with fuch great undertakings. Nature endow'd Casar, Mahomet, Cromwell, Paoli, and fome few more, with faculties which the refufed other mortals, and which, notwithftanding, would fcarce have enabled them to perform fuch great exploits without the affiftance of fobriety and inceffant action.

We fhould not, however, imagine, that the learned alone deftroy their health by mental labour ; it is of no confequence what the object is that engages the mind, if it applies a confiderable time and with earneftnefs, it waftes both its own ftrength and that of the body. Kings, fenators, minifters, ambaffadors, and all thofe concern'd in the adminiftration of public affairs, are fubject to the fame unhappy fate which

88 On the Difeafes of
the learned deplore, if they labour with equal affiduity in tranfacting public affairs, as the learned in perufing books. But it is their happinefs, that, in the various bufinefs and diffipation of their places, they are oblig'd often to quit their clofets, and even againft their wills are, by a falutary neceffity, compell'd to take frequent exercife: the chief ufe of this is, that it admirably prepares the blood for the generation of frefh animal fpirits, and in the fame time it brings a greater quantity of blood to the fecerning organs, and fo reftores what thought had exhaufted, and frames new inAtruments for the thinking mind. But nothing can force the ftudious from their books, and they are quite enervated by inaction: to palliate which
you.

Literary and Sedentary Perfons. 89
you will perhaps bring fome examples of men who have liv'd to a great age, though they ufed but little or no action. There are but few men; but you will, I doubt not, bring many women. Take notice, however, that, though they had not much mufcular motion, they had many other helps, by which nature promotes the circulation of the blood, viz. an agreeable firring of the paffions, which excites, and does not deftroy; a conftant chearfulnefs and eternal loquacity, and other affiftances of a fimilar nature: they likewife ufe but little food. The cafe is quite different with the learned: they do not live with the fame fobriety; and therefore it is no wonder that they enjoy their health worfe than any other clafs of men.

Thus

Thus have I laid before you the chief caufes, from which the difeafes incident to the fudious take rife; and I fhould never make an end, were I to enumerate the inferior caufes, which profeffors have a bad cuftom of affigning from their own invention: I thall therefore pafs by all the fecondary caufes. But there are men, truly learned, illuftrious votaries of the mufes, who, befides the diforders that fpring from too affiduous an application of mind, experience others, owing to the nature of the object that engages them. Anatomifts often contract malignant fevers by breathing putrid air, and other difeafes from the corruption of the bile, from the matter in which their hands are conftantly immerfed, a flight excoriation arifing, or an inconfiderable wound, which fometimes

## Literary and Sedentary Perfons. 9r

 end in their deaths. Chemical experiments are attended with danger, and an acid fmoke, of a very penetrating nature, would have kill'd the great Boerhaave, if there had not been at hand an alcaline fpirit, which overcame the acid and expanded the compreffed lungs. Botanifts have been often hurt by the plants for which they have fo ftrong a paffion. Thefe, and the like, rather relate to the diforders of artificers, (excufe the expreffion) ; but this difcourfe turns upon the diforders which ftudy brings upon fome of the organs.The firft that offer are the eyes, which conftant attention fo fatigues, that I have often feen doctors who had not attain'd to their thirtieth year, and yet could hardly bear the light, efpecially candle-light; and were fcarce able
able to read a few pages without their eyes being fuffufed with tears, then growing dim, and at laft quite incapable to diftinguih any object. But the eyes are much fooner and much more eafily affected by reading at night; for there is not a man living who has not experienc'd, at leaft once in his life, how much they fuffer by the motion of light and the irritation of fmoke.

Orators have diforders peculiar to themfelves, which are of a very grievous nature: for however reading aloud may be of fervice to the lungs, vehement declamation is hurtful: and how often do preachers or lawyers pafs whole days and nights in their ftudies, when the lungs, unequal to the efforts of feaking, are feverely injur'd. How much

Literary and Sedentary Perfons. 93
much more happy are thofe paftors of the church, who cultivate learning, but are kept from their ftudies by other avocations, being in this refpect equally privileg'd with the phyficians, whom the health of their fellowcreatures does not fuffer to impair their own health by ftudy. Happy likewife are all thofe whom the nature of their bufinefs calls off from fudy; for though they are not thereby exempted from the labours of the mind, the change of their employments is however a great confolation to them. But unhappy are thofe preachers, who, being exempt from other ecclefiaftical functions, live only to ftudy, and compofe eloquent difcourfes; unhappy thofe lawyers, who are entirely taken up with managing and pleading caufes; for their health is infenfibly impaired

## 94 On the Dijeajes of

by the life they lead, their throat, wind-pipe, and lungs, are irritated, heated, and inflamed; hence proceed catarrhs, hoarfenefs, a broken voice, fpitting of blood, a cough, a fever, great weaknefs, and at laft a confumption; and, whilft they give light to others, they are extinguifhed like the fnuff of a candle, unlefs they take care of themfelves. This is what Cicero did, who, being told that he was beginning to be confumptive, avoided pleading for two years, by the advice of his phyficians; in which time he recovered his ftrength and health, which had been greatly impaired $(k)$.

Thefe,
(k) The diforders of orators and fingers are the fame; but the bodies of thefe being open'd, have often fhewn inflammations, fuppurations, ulcers in the lungs; nay, the illuftrious MorGAGNI faw a young man that had an excellent voice,

Literary and Sedentary Perfons. 95
Thefe, worthy auditors, are mort of the diforders that are occafioned by too great an attachment to ftudy, or a continued application of the mind to any object whatever: nor are we to imagine that all undergo the fame fufferings; much variety is here occafioned by the various conflitutions of men, by their different ages, and the diverfity of their external circumftances. There are few or no bodies but what have fome weak parts, which fuffer the firft attacks of every diforder. He whofe ftomach is naturally weak, or who has rendered it fo by living in a manner not fuited to his conftitution,
voice, whofe wind-pipe and throat being affected, could fwallow nothing, and, whilft he attempted to fuck down the yolk of an egg, was fuffocated and died. De fedib. Eo cauf. tom. 1. p. 228.

96 On the Difeafes of
will firt complain of pains in the ven: tricle, whilft the nerves, which he received ftrong in a weak body, are ftill in a good ftate. On the other hand, he who is troubled with weak nerves, but has a good ftomach, will long fuffer all forts of nervous diforders, the digeftion remaining unhurt.

He in whom the mufcular or cellular fibres are relaxed, will complain of laffitude, drowfinefs, weaknefs, fwellings, his head and fomach remaining unhurt. Another will fuffer all the diforders incident to the lungs, who received them from nature not indued with a proper degree of Atrength. In thefe the vafcular fyitem of the head is weak, they are troubled with inceffant head-achs, or bleeding at the nofe, to which other fludious youths

Literary and Sedentary Perfons. 97
are obnoxious, their intenfe application to fudy forcing the blood upwards. Finally, every man, according to the part affected with weaknefs, is liable to complain of fome diforders more than others.

Even ftrength itfelf has its difadvantages; for whilft robuft and vigorous young men devote themfelves to ftudy with unbridled ardour, the power of the foul, being rous'd and Atrongly fimulating the whole fyftem, fo increafes the action of the folids, that there arife difeafes occafion'd by too violent a motion, fuch as inflammations and malignant fevers; and when thefe diforders are once begun, they return for fome years, till the ftrength being entirely broken, chroF nical

98 On the Difeajes of nical diforders fucceed, according to the common fate of mankind.

A great deal depends upon the age, with regard to which we fhould not be fo indifcreet as to bear too hard upon youth, nor exact from them over great tafks ; for nothing fo totally exhaufts and deftroys the ftrength. I have often found boys of a penetrating genius, tinctured with learning beyond what could be expected from their years, and always with fome concern, as I faw how it would end; becaufe our youthful days fhould be confecrated to exercife, and to acquiring ftrength by its means, and not to fevere ftudy, which obftructs both vigour and growth.

There

## Literary and Sedentary Perfons. 99

There have been examples of boys, who before they had pals'd their fixth year, appear'd by their fudden growth to be men: the laft example of this fort, we meet with in the memoirs of the French academy: but liften to the fequel: the underftanding continued that of a child in a well fet body, and, the ftrength being fo foon exhaufted, could fcarce fupport a life of twelve years. Whilft the powers of the mind, or in other words, the ftrength of the brain furpafs the age, nature, which is unequal to many tafks, forgets the body; the whole machine is overwhelm'd with languor, the fibres want ftrength, and fevere diforders bring on an untimely death. John Philip Barathier lately afforded us an illuftrious and well known example of the truth of this obferF 2 vation.

## 100 On the Dijeafes of

vation. You all lament another PhiLIP, whom you knew, and whom I regret not having known more intimately, who being from his early infancy endowed with a penetrating genius, and addicted to fudy at that time of life, which nature intended fhould be dedicated to ftrengthening the body, was attack'd by the fevereft diforders, and could recover his health only by the moft abftemious diet, and by totally relinquifhing his ftudies: but foon, unmindful of his weaknefs, he by an untimely death paid for his premature learning. May a better fate be referv'd for Le Fancois, a youth of fourteen, who, as I hear, has acquir'd a high reputation amongt the French, by his genius and extraordinary erudition.

Literary and Sedentary Perfons. IoI
I have often feen with concern the children of peafants loaded with labour above their age and ftrength, but a fill worfe error is committed, when the mind of a child is forc'd to apply before the time, and beyond its abilities; and this is generally productive of the wortt confequences, for the powers of the mind brought to maturity by a pernicious art, are fhortliv'd, and foon grow old: and who has not with grief feen children of the brighteft hopes, hardly give proofs of common underftanding, when grown up? The earth is a long time prepar'd to admit feed, and before it is fown, receives that ftrength, which afterwards impregnates it with fertility from the fun, the air, and the plough; then the grain fprings up, vegetates, flouF 3 rifhes,

102
On the Dijafes of
rifhes, and brings good. fruits to maturity.

But if early ftudies are hurtful; it is no lefs dangerous to attach onefelf to fludy in an advanc'd age; for habit becomes gradually a fecond nature when we begin from our tender age ; but at an advanc'd period it is no longer fufceptible of new habits; and the fibres of the brain accuftom'd to reft, are torn before they can receive new and regular motions. I not long fince with difficulty cur'd a native of: this country, who in his fortieth year laying afide mercantile bufinefs, to pore night and day over the works of Newton, Clarke and Locke, had totally diforder'd his brain. He recovered his health by remedies, by a ceffation of fudy, and amufing converfation:

Literary and Sedentary Perfons. 103
fation ; but the joy was but fhort-liv'd, for by again dipping into the fublime, geometry, and metaphyfical abftractions, he once more loft his fenfes (l).

Nor is it lefs laborious to continue our accuftom'd ftudies too long, when old age approaches. The foul that animates our bodies, is indeed immortal ; but fo long as it is connected with a feeble frame, it muft be influenc'd by its nature.
(l) It often proves hurtful to men of learning themfelves, when in an advanc'd age they purfue a new ftudy; for this gives rife to a new order of ideas, which receives no affiftance from all the traces before left upon the brain: new fibres muft receive new motions, a laborious work to the organ already debilitated, and which often throws men of firft-rate capacities. into lingering diforders.

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104 \text { On the Difeafes of }
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Gigni pariter cum corpore, EO una
Crefcere fentimus, pariterque fenefcere mentem.

Befides, 'tis plain, that fouls are born and grow,
And all by age decay, as bodies do. Creeche's Lucretius, book 3.

The labours of the mind fhould therefore be retrench'd, as the declining powers of the body direct; the latter becomes incapable of bearing the fame burthens, the former of purfuing the fame ftudies, which in this period of life fooneft break the conftitution, and deftroy the brain ; and are of fo little ufe, that old men confult their glory no lefs than their health, by retiring betimes.

Solve

Literary and Sedentary Perfons. 105
Solve fenefcentem mature fanus equum, ne
Peccet ad extremum ridendus, छ\% ilia ducat.

Loofe from the rapid car your aged borfe,
Left in the race, derided, left bebind, He drag bis jaded limbs, and burft bis wind.
Francis's Horace, lib. i. ep. I.
But it grieves me, refpectable auditors, that you fhould be obliged to hear of fo many diforders, and I to give an account of them; fo I fhall fay no more of fo melancholy a fubject, but proceed to treat of the remedies for the feveral difeafes.

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106 \text { On the Difeafes of }
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What lover ever had eyes to fee the bleminhes of his miftrefs? What lover ever ceas'd to admire his miftrefs's beauty? This is another pernicious effect of learning; it occafions a fournefs of temper. Philofophers think themfelves wife in every thing; 'tis a difficult matter to perfuade them that they every day injure their health by their manner of living; you may advife, intreat, and even fcold them, it will be all to no purpofe; they impofe upon themfelves a thoufand different ways; fome by too great a confidence in their ftrength, others by the hopes of impunity from the punifhments being delayed; others again by the deceitful defence of the power of habit, and others again by the fill more deceitful example of other men's good luck; others by other motives; and all,

## Literary and Sedentary Perfons. 107

by that fteady adherence to their purpofe, which they think becoming in a man of virtue, are fo blinded, that they are not affected by future fufferings, and hardly even by thofe they have already incurred. I fhall not however neglect my duty as a monitor, and if I fhould fail of fuccefs, it will be at leaft fome merit to have attempted in a defign of fo much utility. Prefervatives are to be offered to fuch of the ftudious as are fill in health, and remedies to thofe who have impair'd their conftitutions.

The fure and only prefervative is for the mind to be often unemploy'd, and the body to labour. This does not hold with regard to all men of learning; there are fome whofe meditations chould be difturb'd upon no ac-

## 108 On the Difeafes of

count whatever. Descartes frames a world, Newton revolves the whole fyftem of the univerfe in his mind, Montesquieu makes laws for all nations; let no body interrupt them, let all nature be filent, they labour for us, let the good of the people be the fupreme law; they were born to cultivate thofe ftudies. But how few are there, whofe labours are of fuch confequence? Moft ftudious men lofe their time, and break their conflitutions to no purpofe ; one makes a collection of common-place topicks, another embellifhes fuch as are threadbare, a third anxioufly inveftigates matters of no utility, others make trifles the fubject of laborious refearches, and all are equally unmindful of the unprofitablenefs and danger of their purfuits. But be vigilant for their good; knock

Literary and Sedentary Perfons. 109
knock at their doors; roufe them from their lethargy; make them, whether they will or no, lay afide their ftudies for hours together, and let their minds not be totally abandoned to idlenefs, but recreated by gentle eafe, whilft their ftrength is reftored by exercife. At the beginning of my difcourfe I difplayed the advantages of exercife: let it therefore be obferved as an inviolable rule by the learned, to dedicate an hour or two every day to walking, that the lungs may be recreated by a free ufe of the air, that the ftagnant humours may be thrown off, perfpiration renewed, the limbs frengthened, and the nerves repaired. BoerhaAvechofe for this purpofe the hour before dinner. Nor is walking alone fufficient. I would likewife recommend riding, which acts admirably upon the

> IIO On the Difeafes of
the head and lungs, and above all upon the abdominal vifcera, by repeatedly agitating them ; as likewife all the other exercifes, which were carefully cultivated both by the ancients and our anceftors; but which we, to our great detriment, have neglected. Let us not forget Herodicus, a man of learning, endowed with extraordinary intellectual faculties, but the moft infirm of all mortals, who by exercife alone fo confirmed his health, that he lived entirely. free from diforders to a hundred years of age, and compofed a treatife upon the gymnaftic art. Let us not forget Socrates, the wifeft of mankind, who thought it worth his while to learn this art. Strato, being troubled with the fpleen, had recourfe to exercife, which cured him. Hysmo$\mathbb{N}$ eUs, being afflicted with a weaknefs.

Literary and Sedentary Perfons. III of the nerves, had recourfe to the olympic games, and by that exercife overcame the diforder. Sailing fhould have its fhare of praife, amongft other forts of exercife, whofe power in removing the obftructions of the vifcera, throwing off the bile, reftoring the lungs, renewing perfpiration, and ftrengthening the fibres, the ancients were well acquainted with: and it has lately been demonftrated by the illuftrious Gilchrist, and was likewife preferred to all other forts of carriage by Augustus Cesfar, who, when he had any occafion to travel, chofe rather to go by fea than otherwife, if it was poffible. Augustus Casar may in many refpects be compared to the ftudious and learned; " eloquentiam enim ftudia" que liberaliora ab retate prima \& ". cupide \& laboriofiffime exercuit ; \&

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" graves valetudines per omnem vitam " expertus eft ; \& diftillationibus, \& " rheumaticis doloribus, \& calculo ob" noxius vixit, \& præcordiorum in" flatione aliquoties tentabatur; litte"ratis vero fapientior;" "for he cul" tivated eloquence and the liberal " arts from his early youth with tafte " and diligence, and was during his " whole life a valetudinarian; he was " troubled with catarrhs, rheuma" tic pains, and the ftone, and was " fometimes likewife attacked with an " inflammation of the parts about the " heart; but, being more prudent than " moft men of learning," be took great care of bis valetudinary confitution ( $m$ )." Riding in an eafy chariot is of little fervice; of ftill lefs the eafy fuccuffions of the feveral machines which (m) Suetonius in vita Оct. Aug. cap. 82. . have:

Literary and Sedentary Perfons. 113
have been invented by modern induftry for moving the fick about in their chambers; but I fet a high value upon all thofe plays or diverfions which oblige a man to exercife both his arms; fuch, for example, are fhuttle-cock, and others of the like nature.

Do not be concerned, my worthy auditors; the time which you devote to recreation is not loft to learning; you will prefently apply to your ftudies with renewed alacrity, and, whilf your ftrength and health are preferved, a long life will abundantly recompenfe the hours dedicated to the care of the body. In leifure likewife thofe fublime ideas may rife, which the obfcurity of your mufeum would for ever have fuppreffed, for livily and vigorous geniufes make the more noble efforts, the

## II4 On the Difeafes of

more intervals of leifure they allowe themSelves ( $n$ ). I have a particular friend, who, in his walks in the country, has compofed books that will immortalize his name; for the fouls of thofe wobo walk under the canopy of beaven are exalted: and Pliny the younger obferves, that it is furprizing to what a degree the foul is rous'd by the agitation and motion of the body: clofe confinement contracts the body, the oil of the lamp, as it were, infects the thoughts by its fmell, and by too intenfe fudy we become incapable of application, Plutarch has an ingenious obfervation, that as plants are nourithed by moderate watering, but overwhelmed by too much, fo the foul is improved by moderate fudies, but overpowered
(n) Valerius Maximus, lib. 3. c. 6. p. 140.

## Literary and Sedentary Perfons. 115

by exceffive ftudies $(0)$. Take my advice therefore, you men of learning; you will one day repent your auftere retirement; but it will be too late to look for a remedy when the danger is at hand; and forefight becomes the wife man: don't think to excufe your dangerous errors; the experiment is not made upon a vulgar foul, the life of a man of learning is at ftake; neither alledge, in excufe for yourfelves, the examples of others; nor your own Atrength, which you break every day; nor vain cuftom, for we can never ufe ourfelves to a difeafe; nor the impunity of your early years, for reiterated ftrokes will break what one alone could not. Lay afide, therefore, the agitations of your minds, and exercife your bodies; for exercife is of fo much
(d) De education. pueror, cap. 12.

## 116 On the Difeafes of

fervice to the mind, that Hoffman ( $p$ ) has by its means made ftupid men attain to a degree of underftanding; and do not defpife the health of the body, with the affiftance of which the labour of the mind will become more fupportable; for the powers of the mind grow dull, if the ftrength of the body is in a wavering unfetled ftate. Phyficians have power over fouls; and Descartes has juflly obferved, "Animum adeo a temperamento $\&$ "organorum corporis difpofitione " pendere, ut fi ratio aliqua poffit in" veniri, quæ homines fapientiores \& " ingeniofiores reddat quam hactenus " fuerit, credendum fit illam in me" dicina quæri debere." "That the "foul depends fo much upon the "conftitution and difpofition of the (p) De motu opt, corpor, medicin. $\$ 9$.

## Literary and Sedentary Perfons. 117

" corporeal organs, that, if there could " be a method found to render men " wife and ingenious, it feems pro" bable that it fhould be fought in " phyfick (q)." There is a regimen calculated for the ftudious, of which I fhall now give a fuccinct account ( $r$ ).

## Hip-

(9) De methodo, No. 6. There is likewife a remarkable paffage in Moses Maimonides, one of the moft ancient of the Arabian phyficians. As life and health, fays he, contribute greatly to the wormip and knowledge of God; but a man in an ill ftate of health is unable to contemplate the works of God as he fhould do ; a man ought to take particular care to avoid whatever is hurtful to his body, and fhould endeavour to procure whatever contributes to keep the body in health and ftrengthen it. De fanit. tuend. init.
(r) It muft be acknowledged, that a man of learning, indefatigable in his ftudies, if he obferves an exact regimen, innocent and mode-

118 On the Dijeafes of
Hippocrates in three words expreffes the whole alimentary diet of all ages, all ranks of men, and all conditions, wis o wovos घcl 火aเ $\dot{\eta}$ тpopn, food fhould be as labour; for, as he fays elfewhere, if the aliments are overcome, that is, if they are fubdued by the powers of the body, they invigorate it ; if they overcome it, that is, when they get the better of the digeftive powers, they give rife to many bad effects: and Plutarch juftly obferves from Hippocrates, that health arifes from the exact equality of bodily exercife and the aliments taken. The reafon is, the body by its own force makes its own juices and humours out of the aliments it ufes:
rate, will find the difadvantages attending his way of life more fupportable than another. Felici difertazioni, p. 203.

Literary and Sedentary Perfons. I I 9 nor is its fate the fame in the robuft ploughman and enfeebled doctor. Whilf the former, by inceffant exercife, by breathing every day the wholefome country air, by a chearful and vacant mind, unembarraffed by perplexing meditations, and by foft flumbers continually repairs his ftrength ${ }_{7}$ he can bear any fort of food; the falival, gaftric, inteftinal, and bilious liquors, elaborated to the higheft perfection, thoroughly diffolve the moft glutinous fat, and even falt pork hardened by fmoke; the ftrength of the mufcles of the ftomach and inteftines is unimpaired; they fuffer nothing to ftay beyond its time in their cavities; and as the aliments are digefted, their remains are thrown out. How different from this is the cafe of the man debilitated by fudy! The hard bow-

120, On the Difeafes of
els of the mower can digeft any thing, the foft vifcera of the learned or indolent are incapable of digeftion; the latter therefore fhould maturely deliberate, what his powers are equal to, and what not.

Give the labouring man thin broth, fmall cabbage, jellies, pullet's flefh, or white bread; the force of the vifcera and conftant labour will foon digeft thefe, he will immediately grow hungry, fweat all over, and in a fhort time his Arength will fail him, if it be not foon repaired with fat bacon, hard cheefe, and black bread. But let this food, or food of the like nature, be eaten by the weak inhabitants of cities, who are unequal to the labour of digefting it, dreadful difeafes will foon arife from thence, the aliments being converted

Literary and Sedentary Perfons. 12 I into poifon. Thefe are golden words of Boerhative: "Eruditi viri (in" quit) nolunt gule temperare, \& " audent eadem edere quæ ruflici, " verum non ferunt hune victum; " optent, aut feriari a ftudiis, aut a "duris cibis. "Men of learning, "fays he, will not live temperately; " but are fo indifcreet as to eat the "fame food that labouring men do, " and which they are not able to bear; " fo they fhould wih either to be " exempted from the neceffity of fu" dying, or from that of eating frong " food $(s)$," which if they continue to live upon, there arife obftinate obftructions in the abdominal vifcera.

The ftrength of the aliments is eftimated not by the nature of the food
(s) Pralect. in infit. § ro36, tom. VII. p. 337.

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alone

122 On the Difeafes of
alone, but by its quantity: it is not therefore enough to be choice in the quality; attention thould likewife be given to the quantity of the food. I will affert with confidence, that an error in either refpect is attended with very bad confequences; but it is uorft of all when it relates to the quantity. A due obfervation of the bodies of learned men will thew what aliments fhould be chofen, and what avoided: to enumerate all the various forts would be tedious and difagreeable; it will be fufficient to mention the principal kinds.

All fat, vifcid aliments, all aliments puffed with wind, or hardened either by art or nature, are hurtful. The ancients condemned all forts of pulfe; and Pythagoras frictly forbid his

## Literary and Sedentary Perfons. 123

 difciples to eat beans, as thefe have an extraordinary flatulency, highly deftructive of the tranquillity of mind neceflary to one who inveftigates truth. Every body knows, that whilft the flomach fwells the mind is depreffed with languor, and becomes incapable of performing its functions. The tender flefh of all young animals is of great fervice, except thofe of fwine and geefe; not when boiled in copious broth, for then they are deprived of their nutritious juices, but when roafted, or boiled in a finall quantity of water. Such roots are wholefome as confift of a light flour, not without a mixture of falt or fugar $(t)$; foft herbs, which are neither(t) Many plants fit for ufe, and perhaps moft fuch, and many others, by means of an eafy art, give out a great quantity of excellent fugar, not much inferior to that of fugar-canes. Eight ounces of the frefh juice of the fkirret

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124 On the Difeafes of
neither too acid nor too emollient. Nor fhould the feveral forts of feeds be denied their praife; nor ripe fruit, concerning the ufe of which, however, a caution fhould be obferved; for they relax, diffolve, caufe acidity, and thereby are the lefs fit for ftudious men. But take notice, amongft the moft fevere diforders of the learned are reckoned the ftagnation, the thickening, and the hardening of the bile, which defects are beft remedied by fruits that fwell with faponaceous juices, as cherries, ftrawberries, rafberries, goofeberries, peaches, grapes, pears, and other fruits of the like nature, which ftudious, fedentary men cannot well do without, efpecially in fummer. Care fhould be taken to prevent their yield an ounce of the beft fugar. Margraff Mem. de l'Acad. de Berlin.

Literary and Sedentary Perfons. 125 being detrimental, by eating them when the ftomach is empty, either with or without bread, and long before and long after having drunk wine; for thus they neither difturb the digeftion of the other aliments, nor, being hardened with wine, prove more difficult of digeftion themfelves, nor are turned into a fournefs, but act like a mild and gently ftimulating foap, refolve concretions, accelerate the courfe of the bile, ftimulate the lluggifh inteftines, and, by removing obftinate coftivenefs, put an end to grievous diforders, and either prevent hypochondriac melancholy, with the matter from whence it arifes, or cure it. They are of great fervice to thofe, whom fevere ftudy throws into inflammatory diforders, or flow fevers, proceeding from a drying up of the

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126 \text { On the Difeafes of }
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humours: but they are hurtful when, the ftrength being broken, the fibres have loft their tone, and the fluids are too thin. Eggs boiled in fuch a manner as to be fupped are alfo very good for them; for thefe, being infpiffated by boiling, mix with the harder aliments. Well-baked bread and decoctions of bread are alfo of fervice to them. Milk is wholefome, provided it doss not grow acid in the ftomach. Chocolate deferves to be recommended; for with its foft flour and penetrating oil, and a furt of gentle bitter ircitating tafte, it foon repairs and reftores the flrength: do not, however, w.e it to excefs; it is a very nutritious aliment, and increafes plethora in thofe of a plethoric difpofition; it is fat, and by too great lubrication renders the ftomach and inteftines incapable of being

Literary and Sedentary Perfons. 127
being ftimulated, fo that neither does the ftomach grow hungry, nor are the excrements voided: it moreover grows acid, and caufes a gnawing of the ftomach. Various difhes, which may be made out of thefe by a judicious and prudent mixture, are very wholefome ; but it is better to ufe only fimple food, either raw or boiled.

Accipe nunc, victus tenuis qua quantaque Secum,
Afferat. Imprimis valeas bene nam varia res,
Ut noceant bomini, credas, memor illius efce,
2ua fimplex olim tibi Sederit, at finul afis
Mifcueris elixa, fimul concbylia tur dis,
Dulcia fe in bilem vertent, flomachoque tumultuni
Lenta fcret pituita.

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Now mask what blefings flow
From frutsal meals: and firft they can below
That prime of blefings, bealtb; for you'll confess.
That various meats the Almach muff oppress,
If you reflect bow light, bow well you were,
When plain and fimple was the clear. fulfare;
But roaft and boil'd when you promifcuous eat,
When fowl and Gell-fif in confufion meet,
Sweets, turn'd to choler, with cold phlegm engage,
And in the flomach civil warfare wage.
Francis's Horace, lib. 2. fat. 2.

## Literary and Sedentary Perfons. I29

Relaxed fibres, quite benumbed by
a fedentary life, fometimes require a genile ftimulus; therefore a mild feafoning is not to be difapproved of, as falt, fugar, cinnamon, nutmeg; and fuch agreeable aromaticks of our own country as every man cultivates in his garden, thyme, fweet-marjoram, fennil, chervil, and others of the like nature : but thofe are to be avoided which ftimulate with a Charp falt or oil, that nature can fcarcely overcome. I hate garlick as much as Horace himfelf; nor do I better like pepper and nuftard, which are pernicious for their parching oils: but I advife you, however, not to make an immoderate ufe of the milder fort of feafonings, but ufe them as remedies, and not for a conftancy; for their frequent irritation increafes frictions, waftes the fibres, and Mortens life.

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There are other helps to digention, and the chief of thefe is exact mantication, which greatly forwards the work of the ftomach: this is highly recommended ty phyficians; but flighted by others very foolifhly, and greatly to their own prejudice. It both increafes the fecretion of the faliva, which is the beft menftruum of the aliments, and, whilf it divides the latier into minute particles, it increafes their fuperficies, whence they are more eafily penetrated by the gaftric juices; confequently there is a quicker digeftion, a more compleat folution, no fpontaneous corruption, no irritating of the ftomach. Therefore let not the learned defpife maftication, or rather not forget it, whilft at their meals they are, by a pernicious habit, intent upon other things: whether they read

Literary and Sedentary Perfons. I 3 I or meditate, the ftomach fuffers, becaufe the nerves languifh when the mind thinks attentively, and experience proves to the very eyes themfelves, that digeftion is badly performed when the nerves languifh; for upon binding the nerves of the fomach, the illuftrious Haller, who made fo many extraordinary difcoveries, often faw the aliments totally corrupted, inftead of being digefted.

Digeftion is performed flowly in men of learning, therefore frefh aliments fhould feldom be given them; becaufe the flate of the ftomach is very different when it is half full of undigefted aliments, from what it is when entirely void of aliments, and overflowed with the gaftrie fluids, ready for the ufe of concoction. Therefore

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## 132 On the Difeafes of

to make three meals a day, one fomewhat confiderable, the other two rather flight, will be fufficient for men of learning. The following order with regard to eating, or rather living, pleafes me highly, and is recommended by the experience of numbers: Upon rifing in the morning a fludious perfon thould drink a glafs of pure water; in about an hour after he fhould breakfaft; fix hours after he fhould dine, having firft paft one hour in walking; after dinner he fhould allow himfelf an hour or two of leifure, becaufe to fit down to ftudy immediately after eating is highly pernicious: his fupper fhould be light; for this, there are reafons of the greateft weight, becaufe, as I obferved before, fleep occafions a dangerous plethora in the head; therefore the full-

Literary and Sedentary Perfons. 133 nefs of the veffels fhould not be increafed before fleep by too large a meal $(u)$ : add to this, that the functions of the nerves are fufpended during the time of fleep, and they cannot perform digeftion; at laft a foft and refrefhing flumber is produced by the abfence of all irritation: but if the fomach is overloaded with aliments, the fleep is interrupted, as the nerves are continually affected by the irritation of digeftion. Hence a plentiful fupper caufes a heavinefs in the head, fleep is difturbed, digention interrupted, the frength impaired, and the health entirely deftroyed. But a Platonic fup-
(u) Many phænomena prove this plethora; and it is evinced by a fimple obfervation, and one that occurs daily, viz. by thofe convulfions of the lower jaw-bone which caufe a collifion of the teeth in fleep, and that more ftrongly in boys when they have eat a hearty fupper.

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per is praifed, becaufe it is not only agreeable at the time, but the day following.

## Nam corpus onuftum

Hefternis vitiis animum quoque pragravat una,
Atque affigit bumo divine particulam aurc.

Alter, ubi dicto citius curata Sopori
Membra dedit, vegetus prafcripta ad munia furgit.

The body too, with yeferday's excefs Burtben'd and tir'd, fall the pure foul deprefs;
Weigh down this portion of celefial birth,
Tbis breath of God, and fix it to the earth.

Who doren to gleep from a fhort fupper lies,

Literary and Sedentary Perfons. I35
Can to the next day's bufinefs vigorous rije.
Francis's Horace, lib. 2. fat. 2.

Moft learned profeffors, you well know him, whom as a colleague you all loved, that eminent man, who, when he had broke his conflitution by a profound fludy of antiquities, hifory, and both the civil and common law, reftored it confiderably by the fimple remedy of fupping upon milk.

Not to fup at all, however, is dangerous; for the nerves of the learnen are moveable, and eafily irritated; and if the chyle is not foon renewed by a fupply of new aliments, fuch is the acrimony of the blood, already often fubduad by the ftrength of the vifcera, that it is an irritation of the nerves, which

## 136 On the Difenfes of

which totally deftroys the fleep. The
 was very moderate in eating, is very properly propofed to the learned, as is likewife that of the illufrious Lewis Cornaro, who reftored his ruined health by a regular diet alone; and eating but the fourth part of the quantity of victuals eaten by his fellowcitizens, lived to an advanced age, vigorous and chearful. Long fince Bartholus, one of the mof eminent lawyers, and a man well verfed in polite literature, reduced the quantity of his food and liquor to a certain weight, and by that means preferved his intellectual faculties unimpaired during the whole courfe of his life ( $x$ ). A regu-
(x) It was juftly obferved by TheophrasTUS, that to eat much, and to live upon flefh, deprives

Literary and Sedentary Perfons. 137
lar diet is capable of effecting every thing: ftudious men, however, whilft they take care of their health, ought not to forget, that a man, who is well, fhould not fo confine himfelf to rules, as not to break through them, when he thinks proper: for a conftant habit is real flavery: and I have known feveral learned and ftudious men, who were fo fcrupulous with regard to their hours of eating and going to bed, that their minds feemed to be chained to their bodies, which is the moft fhameful fort of fervitude: nor can he be faid to be either a lover of virtue or of learning, who cannot purfue his Atudies if he be obliged to wait a little longer than ufual for his meals, if he deprives men of the ufe of their reafon, blunts the faculties of their minds, and renders them dull and flupid.
${ }^{1} 38$ On the Dijeafes of
has not flept quite enough, or if the air be too hot or too cold.

I have hitherto fpoke only of folid food; liquors are not to be forgotten. In the lait age a grievous error crept into phyfic, that health is the better, the more fluid the blood is; and by the advice of Bontekoe chiefly a pernicious cuftom prevailed of drinking warm liquors both night and day, whereby the human fpecies has greatly fuffered, and thofe of the prefent age forely lament the injury which their forefathers fuftained in the laft, by impairing the ftrength of their nerves.

Grave authors, who knew better, and chiefly the illuftrious Duncan, with Boerhaave, and the whole fchool

Literary and Sedentary Perfons. 139
fchool of Leyden, have profcribed this error; and, if they have not reformed the abufe, have at leaft greatly checked it. But moft valetudinarians ftill lie under the fame prepoffeffion, and, looking upon an over thick blood as the fource of their diforders, have recourfe to warm beverages, which others reject. It can fcarce be told, it can fcarce be believed, how many diforders proceed from this fource: and I will take upon me to affert, that thofe pernicious bowls, overflowing with warm liquors, are the true box of Pandora, without even hope remaining at the bottom; for they are prolific fources of hypochondriac melancholy, which both adds ftrength to and is itfelf one of the worft of diforders. Nor is it to be wondered at, if warm beverages are more hurtful to Atudious men, who

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are naturally weak and feeble, than to others; for they are not troubled with an over thick, but, on the contrary, with too thin a blood. You are well aware, refpectable auditors, that the denfity of the blood is as the motion of the folids: the fibres of the learned are relaxed, their motions are flow, and their blood of confequence thin. Bleed a ploughman and a doctor at the fame time: from the firft there will flow a thick blood, refembling inflammatory blood, almoft folid, and of a deep red; the blood of the fecond will be either of a faint red, or without any colour, foft, gelatinous, and will almoft entirely turn to water. Your blood therefore, men of learning, fhould not be diffolved, but brought to a confiftence; and you fhould in general be moderate in the article of

Literary and Sedentary Perfons. 141 drinking, and cautioully avoid warm. liquors.

The blood flows with difficulty in weak perfons, ftagnates, obftructs, not on account of its own denfity, but by the feeble contraction of the veffels, which is increafed by hard drinking. The ftomach firft feels the diforder; becaufe the liquors prepared by nature for the bufinefs of digeftion, being immerfed in the liquors that are drank, become unable to perform their functions, and the food is imperfectly diffolved on account of the imperfection of the menftruums. The fibres of the ftomach, being too much ftretched, at firt give pain, and foon after lofe their force, and become unable to pufh forward the aliments: they therefore load the ftomach by being ftopped:

142 On the Difeafes of
to cure which the fick perfons again have recourfe to drinking, which with the force of a torrent drives thefe halfdigefted aliments to the inteltines. All thefe fymptoms grow worfe if warm beverages are drank; for this is the force of heat, it both relaxes the fibres, and, by more powerfully diffolving the phlegm, occafions more fevere pains in the ftomach.

Amongtt the favourite beverages of the learned, the worft is the infufion of that famous leaf, fo well known by the name of tea, which, to our great detriment, has every year, for thefe two centuries paft, been conftantly imported from China and Japan. This moft pernicious gift firft deftroys the Arength of the flomach, and, if it be not foon laid afide, equally deftroys that

Literary and Sedentary Perfons. 143 of the vifcera, the blood, the nerves; and of the whole body; fo that malignant and all chronical diforders will appear to increafe, efpecially nervous diforders, in proportion as the ufe of tea becomes common: and you may eafily form a judgment from the difeafes that prevail in every country, whether the inhabitants of it are lovers of tea, or the contrary. How happy would it be for Europe, if by unanimous confent the importation of this infamous leaf were prohibited, which is endued only with a corrofive force, derived from the acrimony of the gum with which it is pregnant: for experience hhews, that what it has of an aftringent principle is loft in the warm water.

I will not pafs the fame cenfure, though I muft fals fome cenfure, up-

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144 \text { On the Difeafes of }
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on that celebrated beverage coffee, which both hurts by the power of the warm water, and by irritating; for nature cannot ufe itfelf to irritation without fuffering. It is however rendered powerful by a nutritious flour, and by a bitter and ftrengthening aromatic oil ; fo that it may well be laid up in apothecaries thops as an ufeful remedy, but is improperly ufed in kitchens as part of our daily food. It raifes the fpirits, eafes the ftomach when loaded with phlegm, cures the head-ach, caufes a chearfulnefs of mind, and, if we may believe fome people, increafes its penetration; for which reafon the learned are fo fond of it. But was coffee ufed by Homer, Thucidides, Plato, Xenophon, Lucretius, Virgil, Ovid, Horace, Petronius, and the other great

Literary and Sedentary Perfons. 145 great men of antiquity, who as much excelled us in genius, as we furpafs "them in experience and knowledge of nature.

Warm liquors being therefore juftly fet afide, cold water mould be ufed, which has as much power in ftrengthening as the former in weakening the body.

Wine deferves its fhare of praife; but I have the fame opinion concerning wine, with refpect to the learned, that I have in regard to coffee, that it fhould be ufed as a remedy, and not as a drink. The Creator gave pure water as the univerfal drink, which he made a menfruum to all forts of food, and agreeable to all palates: it fhould be chofen cold, foft, and mild; for it

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both ftrengthens and cleanfes the vifcera. Hence it has been generally looked upon as a panacea both by the Greeks and Romans, and it is the beft of remedies when drynefs prevails, or bile or acidity are in too great quantity $(x)$. Digeftion will be more eary, fleep fweeter, the head feldomer clouded, and the ftrength greater, if, laying afide wine, we quench our thirft with pure water alone.

Wine has one fault that renders it exceeding hurtful to the learned; it forces the blood into the brain, and increafes the feveral diforders thereof, head-achs, megrim, and the like, which are hardly to be cured without laying afide the ufe of wine: all thefe diforders are wonderfully removed by drinking
(s) Boerhayy pralef. tom. Vil. p. 340. water,

Literary and Sedentary Perfons. 147 water, which prevents too great a quantity of blood from being gathered in the head. What wonder is it then if it increafes the intellectual powers, and if thofe who drink water alone have a more tenacious memory, a more lively imagination, and quicker perceptions than others. The abftemioufnefs of Demosthenes is a great example in favour of drinking water, which has likewife this virtue, it in a furprifing manner fubdues thofe catarrhs with which the learned are fo often troubled, and which the ufe of wine is apt to increare. They have often acid eructations; but wine fharpens an acidity, water dulls it.

I will folemnly own, that I have cured more nervous diforders, (and learned men are generally troubled

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with fuch) by retrenching the quantity of liquor, forbidding all warm beverages, as well as wine, and recommending exercife, than by any other remedies. Nor fhould the danger of leaving off what people have been ufed to, be alledged: there is no fuch danger; or, if there be, it is eafily avoided by a gradual difufe.

But take notice, if fometimes the too great laxity of the ftomach, the great weaknefs of the body, and the depreffion of the fpirits, require a remedy to brace, to ftrengthen, to excite, to exhilarate; wine is the moft proper. In vain would you feek a more expeditious and agreeable medicine than this through the three kingdoms of nature: but let it be generous and

Literary and Sedentary Perfons. 149 and fmooth, and fuch as may vie with Falernian wine:

2uod curas abicat, quod cum Jpe divite manet
In venas, animumque meum, quod verba miniftet.

My wines of generous and of finoother kind,
To drive away my cares, and to the joul,
Through the full veins, with golden bopes to roll.
With flowing language to injpire my tongue,
And make the liftning fair one think me young.
Francis's Hor. lib. i. ep. 15.
But avoid thofe fmall wines which have lefs of the nature of wine than vinegar, and rather irritate than ftrengthen.

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150 \text { On the Difeafes of }
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Remember that wine is an antidote againft the miferies of life and the tedioufnefs of idlenefs; cares are banifhed by wine, whilft the reafon is intoxicated: but does fuch a drink become the learned? And this puts me in mind of another fort of intoxication, I mean that caufed by finoking tobacco, which abounds with an acrimonious falt and fulphur, together wih a narcotic oil. I have elfewhere enlarged upon the folly of fmoking; here I flall add more concifely, that the marcotic principle hurts the fomach, caufes a fuffing up of the head, head-achs, vertigos, anxiety, lethargy, apoplexy, and finally all the effects of opiam, as the great Lord Bacon has obferved. Tobacco, fays he, the ufe of rubich berb bas greatly prevailed in the prefent age, is a fpecies of benbare: it is

Literary and Sedentary Peisons. 151 evident that it difurbs the bead like opiates. Therefore, young men, avoid a dirty pleafure, equally injurious both to your health and your ftudies, and which hould be left to thofe who have recourfe to it for the killing of time. The mufes fly thofe fludies that fimell like a fable, and delight in a purer air; for one of the chief fources of health or ficknefs is the air which environs us, in which we live, and by which not only our bodies are affected, but whofe power our very minds experience. Thus the air of Bœotia, or Thrace, rendered dull thofe whom that of Athens revived:

Bcotum in crafo jurares are natum ( $y$ ).

Take
('y) The goddefs, fays Plato, chofe a place which was to give birth to the wifeft men. Init. H 4

Timai

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152 \text { On the Difeafes of }
$$

Take bim to books and poetry, you'll freear
This king was born in tbick Bcootian air.
Francis's Hor. lib. 2. ep. I.

Prudent men will chufe as pure, as warm, and as dry an air as they can; for fuch an one, by giving ftrength to the fibres, is falubrious to the lungs, and promotes the circulation, A frigid and dry air is fupportable: a moift air is highly pernicious, as by it all the diforders of ftudious men are aggravated; for it increafes laxity, ftops perfpiration, and occafions catarrhs, pains, and palfies. Every man of learn-

Timai. And do not forget this with regard to places, that they are of great confequence in giving birth to men of fuperior genius, or the reverfe. De leg. lib. 5 .

## Literary and Sedentary Perfons. 55

ing has it not in his power to repair to Baya or Alexandria, nor does it fuit them all to breathe the country air, which is the pureft; for there are more that compile than think. The country is not a proper place to purfue fuch ftudies; but any man may chufe. a healthy habitation in town, and live in a lightfome houfe, a high apartment, refrefhed by a breeze in fummer, and enlightened by the fun in winter. He fhould take particular care to have frefh air let into his chamber every day; without this precaution he lives upon the infected: it fhould be cooled in fummer, and not kept too warm in winter; for the learned, like all weak men, as was the cafe of Augustus, are ill able to bear excefs of heat or cold: too great a heat relaxes the nerves, but intenfe cold caufes

## 154 On the Difeafes of

convulfions. In the dog-days we become unfit for labour, as alfo in the fevere cold of winter; and the more tender the conftitution, the lefs it is able to withftand the weather. Such was that of Milton, whofe nerves were relaxed to fuch a degree in the heat of fummer, that he ( $z$ ) was almoft reduced to a ftate of imbecillity. But the air fhould be warmed in winter, a fire being kindled for the purpofe; for this frefh air fucceeds the corrupt air that goes off; nor do exhalations remain, nor does the head grow warm, nor do the feet become cold, which is of great confequence.
(z) By the exceffive heat, which is not fo much as allayed by an Etefian gale, I have entirely loft the power of philofophifing, and am deterred from writing. Lancisi ad Cocchi, p. 47.

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Cold in the feet hurts the weak by caufing pains in the head, the throat, and the breaft ; it diforders digeftion, caufes dreadful colicks, obftructs perfpiration, and prevents fleep to a very great degree. I have often cured men of note, who had long been without fleep, though they had recourfe to the moft efficacious remedies, by advifing them to warm the foles of their feet at a fire, every night before they went to bed, till the fenfe of heat became painful. Others have been greatly relieved by a gently ftimulating plafter applied to the foles of their feet, and left on both night and day.

I may probably, refpectable auditors, appear to defcend too much to particulars, and to dwell too long upon trifles; but nothing is little or incon-
156. On the Difeafes of
frderable in phyfick: and it is a thing of fo much importance to keep the blood from the heads of men of learning, that they fhould neglect nothing which may contribute to this end. They fhould therefore take care not to keep it warm with too much covering, or rather they fhould ufe themfelves to go bare-headed from their childhood. Some men of learning have been fo bold as to wrap their heads with a towel dipt in cold water, that they might be able to continue the longer at their ftudies: and what will. not an inordinate defire of knowledge excite men to? Such rafhnefs thould be avoided; but it is of fervice to all, and efpecially to Audious, fedentary men, to wafh their ears, their faces, and their whole heads, hair and all, every morning in cold water. It is

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very good for the literati, when they feel the blood forced up into their heads not to walk, or inquire follicitoufly after medicines, but to fit upon their chair in total inaction, without ever uttering a word.

The fame neceffity of keeping the blood from the head fhould prevent the learned from indulging in fleep after dinner; or, if they fhould fometimes be forced to yield to fleep, let them imitate the illuftrious perfonage, fo often mentioned already, AugusTUS CASAR, who with the cloaths and Jooes be bad on tcok a Short nap, baving covered bis eyes with bis band (a). I muft
(a) 2ui ita ut vefitus calceatufque crat, retectis pedibus, paulifper conquiefcebat oppofita ad oculos manu. Suetonius in vit. G.O. Aug. cap. 82. I enlarged upon the ill confequences of feeping.
$15^{8}$ On the Dijeafes of
muft likewife add this caution, that they fhould never compofe themfelves to fleep, without firf unbinding all their ligatures. To wafh their feet in warm water is likewife of great fervice to them.

Thefe are the chief helps by the affiftance of which the learned will beenabled to prevent the ill effects of ftudy; but when their application has produced real diforders, they will have occafion for other remedies. You will fometimes fee them, when nature is quite exhaufted by ftudy, fall into a confumption: then the feverity of the diforder requires fome efficacious remedy; and the beft is entirely to lay afide ftudy, meditation, and books, to
after dinner, in an epifle which I infcribed a few years aga to the illuftrious Haller.
bid

Literary and Sedentary Perfons. 159
bid a long farewell to their mufrums, and, giving themfelves up to leifure, chearfulnefs, and country pleafures, to think of reftoring their bodies alone, without troubling their heads about cultivating their minds; but let them become what men were defined for by nature, ploughmen or gardeners.

Difficile eft longum subito deponere amorem,
Difficile eft: verum hoc, qua lubet, efficias.
Una talus back eft, hoc eft titi pervincendum.

Catule. 82.
It is a difficult matter to divest one's self suddenly of a passion of a long finding: but this you may effect, if you defire it. This is the only thing that can preferve you; this you mut endeavour to bring about at any rate.

160 On the Difeafes of:
How fure fhould we be of curing the diforders of men of learning, if it were poffible to lull thought afleep. Here generous wines are of great fervice, provided the lungs are ftill unaffected, and a flow heat does not burn up the veins. Wholefome meats, and well boiled aliments, are of great fervice: milk is likewife of great fervice, provided the ftomach is able to bear it. Riding is alfo ufeful. And it may be beneficial to purge away the peccant matter by fome gentle, ftrengthening remedy. BACON recommends rhubarb. Celsus, with more reafon as I apprehend, recommended aloes, the ufe of which is of great fervice to the learned. Let them not, however, abufe an excellent remedy; for, though purges are fometimes neceffary, they are dangerous when too frequently ufed: for the body begins

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begins to be difufed to nourifhment, and muft of confequence grow weak. But beware, you fick men, of too violent purging remedies; becaufe, as the inteftines are often covered with mucus, this mucus is generally foff, and eafily removed; when it is removed, a. fofter fort fucceeds in its place; this badly defends the villous coat of the inteftines; and, when it is left without defence, it either occafions inceffant pains, or fhould be continually fomented by the tendereft fort of food.

The Peruvian bark or kinkina is here of the greateft efficacy imaginable; in this cafe there is not a better remedy; it reftores digeftion, ftrengthens the veffels, compriffes the fluids, promotes fecretions, and, above all, perfpiration ${ }_{2}$ repairs the ftrength of the nerves,

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- nerves, and quells falfe motions. One of our moft eminent geometricians foon repaired his wafted powers by a large draught of the decoction of kinkina, which he had conftantly by his fide.

If the conftitution be not yet entirely broke, weaknefs oppreffes the ftomach and the nerves, the learned are troubled with hyfteric fymptoms, often attended with a vertigo, fainting fits, fuffocation, and anxiety. They are to be cured like women who are troubled with hyfterics, occafioned by mobility and want of tone in the fibres; they are to be cured, I fay, by bitters, ferulacious gums, myrrh, fteel, and the cold bath. The frequent ufe of the latter preferves a good fate of health, and repairs a broken conftitu-

Literary and Sedentary Perfons. 163
tion; for it is efficacious above all other remedies, except there be already an extraordinary degree of weaknefs, in Atrengthening the ftomach, the nerves, and the whole body; it reftores fleep, produces a chearfulnefs and ferenity of mind, and fupplies new ftrength to purfue new ftudies. This made the ancients fet fo high a value upon ir, that, even amidft the avocations of their neceffary bufinefs, they never failed to bathe every day: and I moft earnefly recommend to the literati the frequent ufe of bathing. I am not ignorant that the ancients often ufed the warm bath, but they ufed it as a remedy after exercife or fatigue ; and it generally agrees very well with the robuft and active; but they reftored their ftrength with cold baths. Augustus, who received no benefit from the warm

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164 \text { On the Difeafes of }
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warm bath, when affected with great weaknefs of body, was advifed to have recourfe to the cold bath by Antonius Musa. Cold baths are falutary. to delicate conftitutions, and the health of the learned is generally, though not always, as much hurt by bathing in warm water, as promoted by bathing in cold.

Friction in a great meafure produces the fame effects with bathing; for if the whole lower belly of a perfon, whilf he lies fupine in bed in the morning, with bent knees and an empty ftomach, be rubbed all over with a rough cloth, he will be greatly benefited by it: by this artifice the motion in the abdomen is increafed, the ftagnant juices are thrown out, the fecretions are increafed, the excrements ${ }_{\text {g }}$

Literary and Sedentary Perfons. 165 are prevented from flaying too long in the body, and innumerable difeafes are cured, which, as you have been frequently told, are caufed by a flow circulation. If the fkin is rubbed all over, either with a cloth or a flefhbrufh, the cuticular fecretion is greatly promoted, the circulation of the blood is fo quickened, that a violent fever may be caufed by rubbing alone, the motion is increafed in the fmalleft veffels, the ftrength is repaired, and the ills caufed by want of exercife are partly remedied. The ancients were therefore right in fetting a great value upon friction: it was afterwards unhappily neglected; but the Englifh phyficians revived it with great fuccees; and there is no clafs of men to whom it may be of greater fervice than to the Atudious. I would, however, recommend
166. On the Dijeafes of
mend to them not to ufe this kind of exercife till they have read what Celsus and Galen have written concerning it.

There is another fort of remedy, which is often of the higheft fervice to men of learning, I mean chalybeate waters; but they fhould not fend for them, they fhould go where they are to be drunk at the fountain head. I do not indeed defpife thofe that are fent for; nay, I have known men of learning who, by my advice, drank Seltzer waters at home during the whole year, by which, and remitting fomewhat of their application, they recovered their health. But it is fill better to drink them at their fource, for they are there in greater perfection; and the journey is of fervice, becaufe,

Literary and Sedentary Perfons. 167 whilft it lafts, the fick are exempt from all doneftick cares, are amufed with a variety of objects, enjoy agreeable company, relax their minds, and recreate their bodies: and the journey alone is of fo much fervice, that hypochondriac perfons are often cured by vifiting remote libraries.

It would be as ufelefs as it is impoffible to enumerate all the waters that may be of fervice in repairing broken conflitutions; for what nature intended as a moft falutary remedy, it has liberally beftowed upon moft regions. There are many in Switzerland: thofe of Aquia in Savoy, in my neighbourhood, deferve high praifes; our waters of Rotula are fill more to be recommended on account of the agreeablenefs of the place than their falubrious

168 On the Difeafes of
falubrious qualities; we muft not forget thofe of Laufanne, the virtues of which have been demonftrated to me both by analyfis and frequent obfervation; but the Seltzer waters furpafs them all, at leaft in their reputation, if not in their qualities; thofe of Schwalbach and Spaw are ftill more powerful; and the Pyrmont waters are inferior to none.

Thefe are not all, but the principal remedies by which thofe diforders may be cured which men of learning bring upon themfelves by over great application: but their diforders are not occafioned by ftudy alone: as men they are fubject to all the diforders of men; and then they fhould be treated according to the rules laid down by experience for curing each diforder.

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Phyficians, however, hould never forget, that the patient, whom they have under their care, is a man of learning, and cannot, of confequence, have the fame ftrength with which moft other men are endued: as they have relaxed fibres and thin blood, they are not fo capable of bearing phlebotomy: but the inteftines are often filled with a collection of filth, which muft be purged off; fo that, as the illuftrious Ramazzini has long fince obferved, it is better to have recourfe to other evacuations with them than to bleeding.

Care fhould be always taken of the head of a learned patient, becaufe it is eafily difturbed, and grows delirious. This is of very bad confequence in diforders; for peevihnefs increafes,

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which few learned patients are without; and, whilf the brain is agitated by a delirium, the neceffary action of the nerves upon the body becomes flow, and fo the powers of nature, which can alone effect a cure, are deftroyed.

If the patient was afflicted before with nervous diforders, thefe foon caufe fufferings of a peculiar fort: the learned, when they are ill, cannot bear too much light, nor noife, nor a crowd of fpectators. I have often feen, upon the fever's beginning to ceafe, new fymptoms occur, which appear to be very bad, but are in fact only nervous.

Men of learning cannot well bear Atrong and powerful remedies.

Their

Literary and Sedentary Perfons. 171
Their recovery is always tedious, and it requires extraordinary care: the ftrength returns flowly; the faculties of the mind, above all, are long in a wavering condition; and I have fcarce ever known a man of learning recover out of a diforder, without complaining of his memory's being impaired, and a fort of weaknefs of the head difcoverable in the face itfelf. Thore little confult their own intereft, who immediately return to their ftudies, and that before their ftrength is renewed: they prepare to themfelves a fore repentance: the ill confequences are felt by their heads, their eyes, and their ftomachs, which muft greatly fuffer, if, whilft they fand in need of the affiftance of the nerves, to digeft the remedies they take, the mind fhould at fo improper a time make
ufe of them. I have often found, that the exercifes of the mind fo weaken the fenfibility and motion of the ftomach and inteftines, that the power of purgatives is entirely counteracted by meditation and conftant ftudy.

Learned patients, when juft out of a diforder, recover their fleep very flowly, and it often is not to be recovered without the affiftance of wine, which is of wonderful efficacy in this cafe, by reftoring a due tone to the ftomach, debilitated by warm liquors; firmnefs to the nerves, ftrength to the whole body, and fpirits to the dejected mind,

Thus have I laid open the caufes of diforders, their fymptoms, and the method of avoiding them: in fine,

I have

## Literary and Sedentarn Perfons. 173

1 have compleated nyy wign to the beft of my power; and you with joy perceive my difcour e approaching to a conclufion, refpectable auditors. I am aware, however, that you will not difmifs me, till I have atoned for a grievous omiffion; nor do I intend to difappoint your expectation: I hall therefore now difcover the grand arcanum of the art of preferving health, which I have hitherto concealed: attend to my words. Chearfulnefs of temper is the fource of health, and a virtuous life is the fource of chearfulnefs: a good confcience, a mind pure and clear of all contagion, are the beft prefervatives of health; and if the learned were without them, it would be a fhame: for of what ufe is learning without wifdom?

174 On the Difeafes of
Quid mufa fine moribus

Vance proficiant?
Of what fervice are the mufes witbout the aid of virtue?

What elfe is knowledge but to be wife? Were not the learned in former ages wife? Knowledge alone is of no avail. I have no manner of efteem for thofe doctors, who inquire what is virtuous and becoming, entirely taken up with moral contemplations, and who, though they fee good, follow evil courfes. Woe be to them! they will fuffer feverely for their bad conduct. Confider the force of the paffions: thofe which affect the mind agreeably, promote a good fate of health; which thofe of a contrary nature deftroy. But what affects the mind

Literary and Sedentary Perfons. 175 mind more agreeably than the remembrance of a life well fpent?

Omnem crede diem diluxiffe fupremum.

Look upon every day that's paft, as the laft of your life.

Cruel remorfe of confcience, on the other hand, deftroys the powers both of mind and body; becaufe the mind being a prey to grief, fuch is the will of the Author of nature, the fibres are relaxed, and both health and beauty vanifh. I cannot without horsor recollect the fhocking inquietudes of fome men, who, having abufed the gifts of God, could not, without inexpreffible terror, fee death approach, which renders the Deity more awful. On the other hand, I cannot without

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176 \text { On the Difeafes of }
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joy revolve in my memory the happy deaths of fome good men, who, as they had paffed their whole lives in the practice of virtue, returned with joy to the Fountain of all good, having laid afide their terreftrial covering, and crowned a happy life with a joyful death. How properly does the learned doctor, lately profeffor of divinity in this academy, occur to me in this place, who, after having fuffered the cruel torments of a dreadful difenfe, during the courfe of a twelvemonth, with wonderfal refolution and patience, after a few friendly and pious converfations with his wife and children, whilf he tentified his gratitu'e to me for my care, and expreffed his good wifhes, expired with religious compofure. And why fhould I forget you, learned, dear, and now happy

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happy uncle and Mentor, who, having lived your whole life, whilft in health, as we promife to live when we are ill, enjoying, to an advanced age, a confcience void of offence, a genius replete with vigour, and faculties acute and penetrating; not only taught us how to live virtuounly, but likewife have inftructed us how to die well.

But it is time for me to put an end to my wandering difcourfe; for I am afhamed to detain you any longer, refpectable auditors.

Farewell, therefore, moft illuftrious prefident, whofe extraordinary humanity, gentle manners, and uncorrupt integrity, all are unanimous in praifing. How agreeaijle to me was it to be chofen upon this occafion by you, whofe

## ${ }^{1} 7^{8}$ On the Dijeafes of

whofe friendfhip, having fo often experienced, I am fo happy as to experience again. But how can I addrefs you, without at the fame time thinking of that prince whom you reprefent amonglt us with fo much applaufe; and this remembrance fills me with emotion. For he is the prince to whom I am indebted for fo many favours. It is he who recalled me, out of love to my country, when I was on the point of quitting it at the invitation of a great monarch; recalied me, I fay; and, remembering my attachment to phyfic, founded this profefforfhip, and befowed it upon me, not without the moft honourable tokens of his benevolence; and, by enrolling me in your illuftrious affembly, learned profeffors, he enabled me to addrefs you

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by the dear appellation of colleagues. Vouchfafe, therefore, favourably to receive him whom he has given you as a companion of your labours, and receive me, moft honoured colleagues, in the fame difpofition of mind with which I come towards you; and fhew as much benevolence, facility, and readinefs to affift me, as I am ready to fhew you veneration, obfequioufnefs, and docility.

Citizens and ftrangers, illufrious for your great virtues, your extraordinary intellectual endowments, and the high offices you fill, the friendfhip of many of whom I cultivate with pleafure, receive my thanks for the benevolence with which you have heard me. Finally, I addrefs myfelf to you, you ftudious youth, hope of your

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your country and of the church, and ornament of the academy; whatever learning or genius I am poffeffed of,

> Et quicquid in arte mea pofum promittere curce,

And whatever afistance I can promife by my art;
which I ain fenfible is but fmall, and I am forry for it; but, fuch as it is, I entirely dedicate and confecrate it to you. It will give me the higheft fatisfaction, if it can be of any fervice to you; but how would it grieve me, if, by mifunderftanding my difcourfe, you fhould be hurt inftead of being. benefited by it. Take care therefore, virtuous youths; my defign was to fhew the dangers of an obftinate perfeverance in ftudy; but I was quite

Literary and Sedentary Perfons. 18I filent with regard to the ufe of polite learning, which (b) nouribes youth, delights old age, adorns profperity, affords confolation in adverfity, delights at bome, is no bindrance abroad, pafes the night with us, travels with us, accompanies us into the country. I have proved by examples, how dangerous it is to fatigue the minds of children with too great labour; but it was not my intention to banifh all labour and ftudy. "Nam certe quamlibet pa"rum fit, quod contulerit ætas prior, " majora tamen aliqua difcet puer eo "ipfo anno, quo minora didiciffet. "Hoc per fingulos annos prorogatum
(b) Adolefontiam alunt, fenesutem oblectant, fecundas res ornant, adverfis folatium prebent, delectant domi, non impediunt foris, pernociant nobifcum, peregrinantur, ruficantur. Cicero Orafione pro Archiâ.

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" in fummam proficit: \& quantum
${ }^{*}$ in infantia præfumptum eft tem-
"poris, adolefcentiæ acquiritur (c)."
" For though what is contributed by " the firft age of life is but in"confiderable, a boy will certainly " learn fome things of confequence "t in the very year that he learns " trifles. This, increafing every year, " will at laft improve him, and what " is learned in infancy is an acquifi" tion to youth." It is dangerous to break upon the rocks of too great learning; it is fhameful to be wrecked upon the oppofite fhore. What path then muft you tread? Hac urget lupus, bac canis angit. On one fide the wolf urges, on t'other the dog worries us. You will be fafe in the middle
(c) Quintilianus de Infit. Orator. lib. Ib cap. I.

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path, always remembering that fentence of your favourite Horace:

Eft modus in rebus font cert denique fines,
2 nos ultra citraque nequit confrere rectum.

Some certain mean in all things may be found,
To mark our virtue, and our wires bound.
Francis's Horace, lib. I. fat. I.

## FIN I

Medical Books printed for E. and C. Diliy, in the Poultry, London.
I. Xperimental Effays on the following Subjects: 1. On the External Application of Antifeptics in Putrid Difeafes. 2. On the Dofes and Effects of Medicines. 3. On Diuretics and Sudorifics. By William Alexander, Surgeon in Edinburgh. Price $3^{s} 6 \mathrm{~d}$ in Boards.
II. An Effiay on Fevers; more particularly thofe of the Common, Continued, and Inflammatory Kinds: Wherein a new and fucceffful Method is propofed for removing them fpeedily. To which is added, An Effay on the Crifes of thofe Diforders. By Lionel Chalmers, M. D. of Charles-Town. Price 2s. fewed.
III. An Anfwer to the Obfervations of Mr. Geach, and to the Curfory Remarks of Mr. Alcock, on Dr. Baker's Effay on the Endemial Colic of Devonhire. In a Letter from Dr. Saunders to Dr. Baker. Price is
IV. A new and eafy Method of giving Mercury to thofe affected with the Venereal Difeafe. To which is annexed a new Theory of the Action of this Metal on the falivary Glands. Tranflated from the Latin of Jofeph James Plenck, Profeffor of Surgery and Midwifry at Vienna. The Second Edition. To which is prefixed, a Table, exhibiting, at one View, all the Preparations of Mercury, reduced under proper Heads. With an Appendix of Remarks on Mr. Plenck; together with fome Experiments and Obfervations, which afcertain, with more Accuracy, a fleady and uniform Method of giving his Medicine; and a fhort and eafy Method of preparing the Mercurius Calcinatus. By William Saunders, M. D. Price 2s. fewed.

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